



INTERNET PROTOCOL TELEPHONY VOICE OVER INTERNET PROTOCOL CHECKLIST V2R2.2

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PROCEDURES FOR REGISTRATION OF VOICE/VIDEO/RTS ASSETS IN THE VMS

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1.1 Introduction

This document will describe the proper procedure to follow to register and update the IA status of voice and/or video / real time services (RTS) systems and devices in VMSv6. For the purpose of this document, we will use RTS to refer to any voice/video/RTS system or device. This includes all types of telecom switches or video systems, whether they are TDM or IP based, as well as any supporting system or device.

1.1.1 Pre - Requisites

Any person that needs to interface with the VMSv6 must:

1. Take the on-line CBT, which can be accessed at https://vmscbt.disa.mil (no login is required). It is highly recommended that a person taking the CBT review all modules to become familiar with all of the roles that the various VMS users fulfill.

- 2. Download and become familiar with the appropriate users guide for user role(s) that the trainee will be fulfilling. These bay be found at https://vmscbt.disa.mil/resources.htm
- 3. Obtain a VMS account and login to the application. Instructions for this are contained in the CBT.
- 4. Become familiar with the navigation and features of VMS by reviewing the CBT and users guide while in VMS.

Once these steps have been completed, one can begin to register assets and update their statuses.

1.2 RTS Asset Naming Convention

A naming convention for the system and its components must be used when registering the various assets so that the individual assets can be more easily identified as a group or part of a system. This naming convention should be based on the name of the owner/site/location/enclave and the name/type of RTS system being registered.

Some examples of an overall RTS system name might be:

- DISA-SKY7_Cisco-VoIP
- Ft.Hood MSL100
- LacklandAFB MSL100
- Gunter_CS2100
- Landstuhl HiPath4000
- SHAPE EWSD
- Pearl_5ESS

This name represents the Non-Computing Asset for the overall RTS system.

The Computing Assets, that make up the RTS system must include the name of the overall system and a unique name for the device. This unique name should include the function of the device and its network addressable name. That is the unique name that is used to identify the box on the network. This is not the IP address or MAC address, which is entered as an attribute of the asset.

Some examples of component device/system names might be:

- DISA-SKY7_Cisco-VoIP_CCM-Registrar_CCM0001RP
- DISA-SKY7_Cisco-VoIP_CCM-Publisher_CCM0002PP
- DISA-SKY7 Cisco-VoIP CCM-B/URegistrar CCM0003RB
- DISA-SKY7_Cisco-VoIP_CCM-B/UPublisher_CCM0004PB
- DISA-SKY7 Cisco-VoIP PSTN-Gateway PSTNGW0001
- DISA-SKY7_Cisco-VoIP_DSN-Gateway_DSNGW0001
- DISA-SKY7 Cisco-VoIP LAN-Core SKY70001
- DISA-SKY7_Cisco-VoIP_ManagementWS_SKY7MWS0001
- DISA-SKY7 Cisco-VoIP ManagementLS SKY7MLS0001

In the event that an asset already exists and uses a different naming convention, place the name derived here the asset 'Description' field.

1.3 RTS Asset Identification

An RTS system as a whole is an asset, however, each individual device that makes up the system is also an asset. Each of these assets must be registered in the VMS. VMS has 2 primary types of assets, Computing and Non-Computing.

Each RTS system at a given site/location/enclave needs to be registered as a Non-Computing Asset in the VMS.

The individual assets are registered as Computing Assets. Computing Assets are based on boxes, which have an operating system (OS) as well as applications such as databases, web servers, and control and/or management applications. The OS and the applications are called "Postures" in the VMS. All applicable postures are assigned to the asset.

Typically, a Computing Asset will have at least one IP address and/or one MAC address. Management workstations, LAN switches and routers, firewalls, multiplexers, phones, and similar devices are also Computing Assets that make up the RTS system. Desktops and Laptops are also computing devices that need to be registered.

1.3.1 Local Management System(s)

LAN switches and routers, management workstations/consoles, NMS servers, and front end processors that are used <u>exclusively</u> in the <u>local</u> management the RTS system must be named and registered as part of the RTS system and given a unique name (using the naming convention above) identifying it as part of the RTS system. Local management systems must be treated as an enclave.

1.3.2 Remote Management System(s)

LAN switches and routers, management workstations, NMS servers, and front end processors, etc that are part of a remote management/monitoring system such as ADIMSS, ARDIMSS, ESRS, etc, must be registered by the owner/SA of the device or the owner/SA of the management/monitoring system that it is part of. It is critical that the 'Location', 'Managed By', and 'Owned by' fields are properly filled out. The device or system must also be associated with the proper program(s), site, and enclave under the 'Sites/Enclaves' tab. Remote management systems are typically separate enclaves from the local management system enclaves.

1.3.3 BCPS LAN/CAN/BAN Infrastructure

LAN switches and routers that make up the data and RTS distribution system must be named and registered by the LAN/enclave SA in accordance with the Network Infrastructure asset registration instructions found in the Network Infrastructure Checklist. RTS requirements for the LAN are applied to the asset via the Non-Computing asset assignment of the RTS requirements to it as described below.

1.3.4 RTS Adjunct/Auxiliary Systems/Devices

Adjunct/Auxiliary Systems/Devices are defined as systems and devices that augment the basic telephony service. Examples of such systems and devices are: Voice mail systems, call center and/or operator systems, CTI systems, IVR systems, auto-attendant systems, Emergency Services (911) systems, etc. Systems such as these may be registered as part of the RTS system if appropriate (i.e., small systems or single devices), or may be registered as a separate Non-Computing system / enclave asset along with its Computing assets.

1.4 RTS Asset Creation In The VMS

The RTS system Non-Computing Asset(s) is(are) registered first, followed by the Computing Assets. This section will provide an overview of the major steps. Subsequent sections will provide step-by-step procedures.

1.4.1 The Organization, Site, and/or Location

Before assets can be created, an organization and a site or location must be defined in the VMS. This is a VMS ISSM role and responsibility and is outside the scope of this document. Programs are also defined in the VMS and this is the responsibility of the VMS DAA role.

1.5 Non-Computing Asset Creation

First create the Non-Computing Asset for the RTS system using the naming convention described in "RTS Asset Naming Convention" above. On the 'Asset Posture' tab, expand the 'Voice/Video/RTS Policy' item and check the policies that apply. The available policies are:

- DRSN Policy
- DSN Policy
- VoIP/VoSIP Policy

'<u>DRSN Policy</u>' applies to an asset that is part of, or connected to, the DRSN. This can also apply to other "secure" or classified voice/video/RTS systems.

'<u>DSN Policy</u>' applies to an asset that is part of, or connected to, the DSN. or other UN-classified voice/video/RTS systems.. All UN-classified voice/video/RTS systems owned or operated by, or for, the DoD are subject to the same requirements.

'<u>VoIP/VoSIP Policy</u>' applies to an asset being registered that provides IP based voice or video communications (i.e., VoIP). This includes IP centric systems as well as IP enabled TDM based systems.

Either DSN Policy **OR** DRSN Policy must be checked. VoIP/VoSIP Policy must **ALSO** be checked if the system provides IP based voice or video communications.

A local RTS system management LAN, that is not part of the site LAN, should be added to, or registered as part of, the RTS Non-Computing Asset. Additionally, a LAN that only supports an adjunct/auxiliary system to the RTS system, such as a call center or IVR system <u>may</u> be added to or registered as part of the RTS Non-Computing Asset.

This is done by adding the 'Network Infrastructure Policy' and/or the 'General Business LAN Enclave' postures.

Additionally, an adjunct/auxiliary system to the RTS system (and its supporting LAN) such as a call center or IVR system etc, that is not part of the site LAN, may be registered a separate complete system to include its supporting LAN. Such a system is registered as a Non-Computing Asset using the naming convention for the overall RTS system and adding the adjunct/auxiliary system name. For Example:

- LacklandAFB_MSL100_CallCtr-Sys
- LacklandAFB_MSL100_IVR-Sys
- LacklandAFB_MSL100_911-Sys

This is done by adding the 'Network Infrastructure Policy' and/or the 'General Business LAN Enclave' as well as the 'Voice/Video/RTS Policy' postures to the Non-Computing Asset.

The second Non-Computing Asset that needs registration consideration is the site LAN/CAN/BAN that provides distribution for both RTS services and data traffic. This network must be registered along with its components whether it supports RTS systems or not. The SA for the RTS system must work with the SA for the LAN/CAN/BAN to insure that the Voice/Video/RTS Policy asset postures are selected as described above for the RTS System itself. These two SAs could be the same person, however, if not, the SA for the LAN/CAN/BAN should grant "update" permissions on LAN assets to the SA for the RTS system. Asset naming would follow that chosen by the SA for the LAN/CAN/BAN.

Alternately, the SA for the RTS system could create his/her own LAN/CAN/BAN Non-Computing Asset and assign the 'Voice/Video/RTS Policy' asset postures to it. Asset naming would follow the naming convention described in "RTS Asset Naming Convention" above. In this case, the individual LAN/CAN/BAN Computing Assets would not be registered since the SA for the LAN/CAN/BAN would register these.

Detailed step-by-step process instructions are provided under "Creating the Non-Computing Asset(s)" below.

1.5.1 Computing Asset Creation

All system devices must be defined and registered once the appropriate NON-Computing Assets are created, and the BCPS LAN/CAN/BAN has had the Voice/Video/RTS Policies added to it. The SA for the BCPS LAN/CAN/BAN must register each LAN switch, router, and management system. This does not have to be done by the RTS system SA unless he/she is also the SA for the BCPS LAN/CAN/BAN, or if the RTS system SA has created a separate Non-Computing Asset for the RTS BCPS LAN/CAN/BAN.

The following are examples of RTS Computing Assets: (Note: Some of these may have sub-components that are also considered as individual Computing Assets.)

- TDM Switch (Possible sub-components)
- Local Call Controller (Possible sub-components)
- Call Manager Subscriber
- Call Manager Publisher
- Media gateway
- RTS firewall or Boundary control device

- LAN Switch / Router
- Phone instrument endpoint
- Management workstation
- NMS data collection device or server
- Server (of almost any type)
- VTC MCU (Possible sub-components)
- VTC endpoint
- Gatekeeper
- All GSCR device type designations:
- Many others

All computing assets are registered with an OS. They may also have applications such as databases and/or web servers that also must be added to the posture of the asset.

Registering computing assets is an iterative process until all assets are registered.

Detailed step-by-step process instructions are provided under "Creating the Computing Asset(s)" below.

1.6 Creating Assets – Step-by-Step

1.6.1 Creating the NON-Computing Asset(s)

These instructions apply to creating the RTS system and/or Adjunct/Auxiliary system NON-Computing Asset.

<u>Note</u>: (<u>Reviewer</u>) It is recommended that a reviewer work with the Voice/Video/RTS system SA when creating assets for this type of system. The SA will have more knowledge of the system and can assist in making sure that all applicable postures are applied and that the system naming, identification, enclaves, and programs are selected or applied properly.

a. Steps

- i. Expand 'Asset Findings Maint'
- ii. Click 'Assets/Findings'
- iii. **Expand 'By Location'** and then find and expand your site/location. (Others may need to expand 'Managed By' or 'Owned By'. What is seen depends upon your permissions or role.) Within the location, assets are divided into computing, noncomputing and CNDS.
 - o Proceed to step vi.
 - (*Reviewer Only*) Expand 'Visits' to display its sub-folders.
- iv. (<u>Reviewer Only</u>) Expand the sub-folder you are assigned. Each subfolder represents an individual visit in VMS that has been assigned for your review.
- v. (<u>Reviewer Only</u>) Expand the visit and display the location summaries for the visit. Within the location, assets are divided into computing, non-computing and CNDS
- vi. Click the 'yellow folder' icon located at the right of 'Non-Computing'. You may expand 'Non-Computing' to see assets that have already been created and that you have permissions for.

vii. Click the 'General' tab

- o Enter a 'Host Name' using the naming convention described in "RTS Asset Naming Convention" above.
- o Enter a 'Description' of the system.
 - <u>Note</u>: This should reflect a general description of the RTS System and could include the make and version of the LCC software.
- o Verify/Select the location of the system in "Location"
- o Verify/Select the owner of the system in "Owner": (Used to register asset to parent or child location.)
- o Verify/Select the organization or site responsible for management of the system in "Managed By": (Used for remotely managed locations.)
- Verify 'Mac level', 'Confidentiality', & 'Classification', Change as required. Note: These default to MAC II, Sensitive, Unclassified. The 'Confidentiality' of a RTS system or asset should never be set to 'Public' since its configuration is considered sensitive. These settings should match those identified in the site or system SSAA.
- o Click 'Save'.

<u>Note</u>: It is recommended that you click '<u>Save</u>' after filling out each tab or more often. This practice will prevent the loss of recently entered data in the event of a timeout. You may wait to save until after filling out all tabs but you must click save at the end of data entry on all tabs or your work will be lost.

- viii. Click the 'Asset Posture' tab to add functions to the asset:
 - o Expand 'Non-Computing'
 - o Expand 'Voice/Video/RTS Policy' (or 'Telecom Policy')
 - o Check the boxes for appropriate policy/policies as follows:
 - Check '<u>DRSN Policy</u>' if the asset is part of, or is connected to, the DRSN.
 <u>Note</u>: This policy can also apply to other "secure" or classified voice/video/RTS systems.

OR

Check '<u>DSN Policy</u>' if the asset is part of, or is connected to, the DSN.
 <u>Note</u>: This apples to ALL UN-classified voice/video/RTS systems whether part of the DSN or not. All UN-classified voice/video/RTS systems owned or operated by, or for, the DoD are subject to the same requirements.

AND

• Check '<u>VoIP/VoSIP Policy</u>' if the system being registered provides IP based communications. This includes IP centric systems and IP enabled TDM based systems.

AND

- (Conditional) If there is a LAN that only supports the management of the RTS system or an adjunct/auxiliary system to the RTS system AND it is not part of the site LAN/CAN/BAN or the site's OOB management LAN:
 - o Expand 'Network Policy Requirements'
 - o Check 'Network Infrastructure Policy'

<u>Note</u>: If such a LAN is not added here it must be registered separately under both Non-Computing and Computing. Adjunct/auxiliary systems LANs and devices may also be registered separately.

AND

- (Conditional) If this LAN has a boundary that touches another LAN, or a local / extended enclave, or a DoD WAN:
 - o Expand 'Enclave'
 - o Check 'General Business LAN Enclave'.
- o Click '>>' to move it to the 'Selected' window (This can be done after each selection or after all selections).
- o Click 'Save'
- ix. Click the 'Systems / Enclaves' tab to associate this asset with the appropriate or all applicable program(s), enclave(s), and site(s).
 - o Determine the enclave and/or program that the asset is part of.
 - o In the 'Available Systems' box:
 - Find and select '<u>DISN-DSN</u>' if the system can place or receive DSN calls. **OR**
 - Find and select '<u>DISN-DRSN</u>' if the system can place or receive DRSN calls. (Not available as of 4/7/05 See note below)
 - Click '>>' to move it to the 'Selected Systems' window

• Click 'Save' (optional)

AND

• Find and select '<u>ADIMSS</u>', IF the RTS System is managed or monitored by the ADIMSS (DSN),

OR

- IF the RTS System is managed or monitored by the ARDIMSS or ESRS (DRSN), Find and select 'ARDIMSS' and/or 'ESRS'
- Click '>>' to move it to the 'Selected Systems' window
- Click 'Save' (optional)
- o In the 'Available Enclaves' box:
 - Find and select the local enclave that the RTS system is part of. (i.e., your site/location)
 - Click '>>' to move it to the 'Selected Enclaves' window
 - Click 'Save'

<u>Note</u>: For registered enclaves and/or programs, choose all that apply. If the enclave or program is not present, ensure that the IAM [or (<u>Reviewer Only</u>) Team Lead] works with the appropriate site personnel to request the enclave or program be added.

- x. Click the 'Additional Details' tab to add building and room number information for the RTS asset; this should reflect the location of the RTS core equipment.
- xi. Click 'Save'.
- xii. Return to step vi to create another Non-Computing asset or proceed to creating the Computing Assets in the next section.

<u>Note</u>: The above '<u>Voice/Video/RTS Policy</u>' postures and program association may be added to an enclave or network non-computing asset instead of creating a separate <u>Voice/Video/RTS non-computing asset</u>.

1.6.2 Creating the Computing Assets

These instructions apply to creating the RTS system and/or Adjunct/Auxiliary system Computing Asset(s).

<u>Note</u>: (<u>Reviewer</u>) It is recommended that a reviewer work with the Voice/Video/RTS system SA when creating assets for this type of system. The SA will have more knowledge of the system and can assist in making sure that all applicable postures are applied and that the system naming, identification, enclaves, and programs are selected or applied properly.

b. Steps

- i. Expand 'Asset Findings Maint'
- ii. Click 'Assets/Findings'
- iii. **Expand 'By Location'** and then find and expand your site/location. (Others may need to expand 'Managed By' or 'Owned By'. What is seen depends upon your permissions or role.) Within the location, assets are divided into computing, noncomputing and CNDS. Proceed to step vi.
 - (Reviewer Only) Expand 'Visits' to display its sub-folders.
- iv. (<u>Reviewer Only</u>) Expand the sub-folder you are assigned. Each subfolder represents an individual visit in VMS that has been assigned for your review.

- v. (<u>Reviewer Only</u>) Expand the visit and display the location summaries for the visit. Within the location, assets are divided into computing, non-computing and CNDS.
- vi. Click the '<u>yellow folder</u>' icon located at the right of '<u>Computing</u>'.

 You may expand '<u>Computing</u>' to see assets that have already been created and that you have permissions for.

vii. Click the 'General' tab

- o Enter the 'Host Name' following the naming convention described above.
- o Enter a '<u>Description</u>' of the asset. This should reflect the function and platform of the device. i.e., make and model of the device and software version etc.
- o Verify/Select the location of the system in "Location"
- o Verify/Select the owner of the system in "Owner": Used to register asset to parent or child location.
- o Verify/Select the organization or site responsible for management of the system in "Managed By": Used for remotely managed/monitored locations.
- o Verify 'Mac level', 'Confidentiality', & 'Classification', 'Status', 'Use', & 'Workstation', Change as required.

<u>Note</u>: These default to MAC II, Sensitive, Unclassified, Online, Production, No. The '<u>Confidentiality</u>' of a RTS system or asset should never be set to '<u>Public</u>' since its configuration is considered sensitive. These settings should match those identified in the site or system SSAA.

o Click 'Save'.

<u>Note</u>: It is recommended that you click '<u>Save</u>' after filling out each tab or even more often. This practice will prevent the loss of recently entered data in the event of a timeout. You may wait to save until after filling out all tabs but you must click save at the end of data entry on all tabs or your work will be lost.

- viii. **Click the 'Asset Identification' tab** to enter as much identifying information as is available:
 - o Enter one or all of the following: 'I.P. Address(s)', 'MAC Address(s)', 'System Unique ID'

<u>Note</u>: The '<u>System Unique ID</u>' field may be used in addition to the IP and/or MAC addresses. The name used in the '<u>Host Name</u>' field MAY be entered in the '<u>System Unique ID</u>' field.

<u>Note</u>: When entering IP and/or MAC addresses, complete all fields and click '<u>add</u>'. The address is listed on the right. Multiple addresses can be entered one by one. Addresses can be deleted by clicking '<u>remove</u>' next to the address to be deleted.

<u>Note</u>: IPv6 addresses can be entered along with IPv4 addresses. Click '<u>IPv6</u>' to obtain an IPv6 address box. Click '<u>IPv4</u>' to revert back to an IPv4 address box. Enter as noted above.

<u>Note</u>: Establish your standards by using the loopback IP address of a network device. If a loopback is not used or is unavailable, use the management interface IP address or MAC address. These entries are not required if the device is not network enabled (i.e., a legacy TDM device that only has a serial management (craft) interface). In this case the device name used in the '<u>Host Name</u>' field MUST be entered in the '<u>System Unique ID</u>' field.

- o Enter the 'Fully-Qualified Domain Name' of the device if it is a member of a network domain.
- o Click 'Save'.
- ix. Click the 'Asset Posture' tab to add Postures or functions to the asset:
 - a) **Expand 'Computing'** to view the available postures

Note: Expand each of the categories listed throughout the tree and click all applicable boxes for the specific asset being registered. Every asset has an OS. Expand 'Operating System' (and sub-branches) and select the version of OS that is used by the asset. Assets may also have applications. Expand 'Applications' (and sub-branches) and select ALL the application types and versions that are used by the asset. Follow this method for adding all applicable postures or functions to the asset being registered. The following steps will define a more detailed procedure or guide tailored to RTS systems. However, it is impossible to anticipate every possibility with these instructions due to the fact that RTS systems utilize various combinations of all technologies listed. The SA (or reviewer) is responsible for knowing what the asset being registered is, what its OS is, and what other applications or technologies it uses.

<u>Note</u>: Technology based rules within the VMS require the selection of additional postures and/or the input of additional information, such as instance identifiers, when selecting some items in the '<u>Available Postures</u>' list. Refer to the VMS registration instructions found in the Checklist for the related technology. This is most often related to the Database and Web Server postures. A listing of these rules may be found on the VMS Help page. When this information is required, additional information or input boxes are displayed (following a '<u>Save</u>) in the lower right corner of the '<u>Available Postures</u>' under the '<u>Selected</u>' box. Input boxes are accompanied with a '<u>add</u>' link that must be clicked to enter the information.

<u>Note</u>: Clicking '>>' can be done after each selection or after all selections. You will need to expand the device name that appears in the 'Selected' box to see the various items selected.

Note: Rules must be satisfied or the Asset Posture selection(s) will not save. Clicking '>>' will cause any required additional input box to appear under the 'selected' box. This does NOT display alerts. Clicking 'Save' will cause an alert for any rule that is not satisfied to be displayed under the 'selected' box. Additionally, All rules and input boxes that are displayed must be satisfied before the posture will save successfully. Therefore it is recommended that '>>' and 'Save' be clicked after selecting any posture tree under the top level. The instructions will reflect this.

b) **Expand '<u>Voice/Video/RTS</u>'** to view the available postures or functions. Check all boxes that apply as follows:

<u>Note:</u> If registering a LAN/CAN/BAN network infrastructure device or management system, Expand '<u>Network</u>' then '<u>Data Network</u>' and refer to the VMS registration instructions found in the Network Infrastructure, IP Wan, and/or Backbone Transport Checklists.

O Check 'VoIP Switch/System/Device' if the asset provides, or is involved in providing IP based RTS communications. This includes Voice as well as VTC that is part of or associated with the Voice system. (i.e., video phones or VTC devices or applications that are controlled by or register with a RTS/VoIP LCC. This also includes IP enabled TDM switches.

AND/OR

 Check 'TDM Switch/System/Device' if the asset is a TDM based telecommunications switch. This includes IP enabled TDM that provide VoIP service. In this case 'VoIP Switch/System/Device' is also checked.

<u>Note</u>: This also applies to TDM signaling a Switch/System/Device such as an SS7 STP, SSP, or SCP. (Refer to the DSN STIG for an explanation of these devices.)

OR

Check 'Voice/Video Adjunct/Aux/Management System/Device' if the asset is involved in managing a RTS system or device or providing some adjunct or auxiliary function to the RTS system other than providing the RTS switching capability.

OR

- Check 'Video/VTC System/Device' if the asset is, or is part of, a video or VTC system that is NOT controlled by the RTS/VoIP LCC.
- **Click '>>'** to move the posture to the 'Selected' window (Optional/Recommended)
 - Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
- Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
 - o Click '>>' and Save' again.
- c) **Expand 'Role'** to view the available Roles for the asset or system being registered. Rules within the VMS require the selection of a Role.
 - Check the box next to each role that the asset fulfills. RTS system devices must have one or more of the following selected:

IF the asset is part of a classified RTS system or network

• Check the box next to '<u>Classified RTS</u>'. This applies to all RTS system assets including core equipment, management systems/devices and Adjunct/Auxiliary systems/devices.

OR IF the asset is used in an UN-classified RTS system

• Check the box next to '<u>UN-Classified RTS</u>'. This applies to all RTS system assets including core equipment, management systems/devices and Adjunct/Auxiliary systems/devices

AND IF the asset is part of a RTS management system

- Check the box next to 'RTS Management'. This applies to assets that are part of a system that manages core equipment and/or Adjunct/Auxiliary systems/devices.
- Click '>>' to move the posture to the 'Selected' window (Optional/Recommended)
 - o Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
- Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
 - o Click '>>' and Save' again.

<u>Note</u>: Additional roles may need to be selected due to rules associated with other postures. One of these is the Windows OS, which requires the selection of '<u>Domain Controller</u>', '<u>Member Server</u>', or '<u>Workstation</u>'. These may be selected now if selecting a Windows OS in the next step.

- d) **Expand 'Operating System'** to view the available OSs. Drill down through the tree to locate the version of OS installed on the asset. Rules within the VMS require the selection of an OS.
 - Check the box next to the OS installed on the asset. Some OSs can be found at the top level of the tree. Others and their versions require drilling deeper. The following steps provide a more in depth procedure and explanation.

IF the asset is based on a Windows OS

- Expand 'Windows' AND expand the Windows version being used.
 - Check the box next to the version of Windows installed on the asset.
 <u>Note</u>: For Windows registration instructions and further explanation, refer to the VMS registration instructions found in the Windows Checklist.

<u>Note</u>: Rules within the VMS require the selection additional postures when selecting the Windows Operating System. This is covered in the next step.

<u>Note</u>: If the version of windows being used is a vendor-customized version, check the box next to the version of Windows on which the vendor based their customization.

Expand 'Role' and select 'Domain Controller', 'Member Server', or 'Workstation'. RTS core equipment will typically be registered as a 'Member Server' unless it provides Active Directory Services.

<u>Note</u>: Rules within the VMS also add the postures of Application/Browsers/Internet Explorer/IE6 and Application/Desktop Application - General. These appear after the Role rule is satisfied and the selections/Asset is saved. The browser selection may be changed if necessary. See Browser selection below.

OR IF the asset is based on a UNIX or Linux OS

- Expand '<u>UNIX</u>' AND sub-branches to locate the OS and version being used.
 - Check the box next to the version of UNIX/Linux installed on the asset.

<u>Note</u>: For UNIX/Linux registration instructions refer to the VMS registration instructions found in the Unix Checklist.

At the time of this writing, there are no rules within the VMS require the selection additional postures when selecting the UNIX or Linux Operating System.

OR IF the asset is based on a Cisco or Juniper network device OS

- Expand 'Cisco' or 'Juniper' to locate the OS and version being used.
 - Check the box next to the version of OS installed on the asset.
 <u>Note</u>: For Network device registration instructions refer to the VMS registration instructions found in the Network Infrastructure, IP Wan, and/or Backbone Transport Checklists.

<u>Note</u>: Rules within the VMS MAY require the selection additional postures when selecting a Cisco or Juniper Operating System.

OR IF the asset is based on a embedded network device OS and/or has not been located anywhere else in the OS tree:

- Expand 'Network Device Embedded OS' to locate the OS and version being used.
 - Check the box next to the version of OS installed on the asset.
 <u>Note</u>: For Network device registration instructions refer to the VMS registration instructions found in the Network Infrastructure, IP Wan, and/or Backbone Transport Checklists.

<u>Note</u>: Rules within the VMS MAY require the selection additional postures when selecting a Network Device Embedded OS. **IF** the appropriate OS has not been located anywhere else in the OS tree, Check the box next to 'Other Network OS'

- Click '>>' to move the posture to the 'Selected' window (Optional/Recommended)
 - Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
- Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
 - o Click '>>' and Save' again.
- e) **IF** the asset is a server or a piece of RTS system core equipment, proceed to f) and select all the applications used by the devise as follows; **ELSE** skip to "g)" below

- f) **Expand 'Application'** to view the available applications. Drill down through the tree to locate all applications and versions being used by the asset. This is a required step to define what applications are installed on the asset for which there is configuration guidance or for which IAVM notices exist. This requirement is typically applicable to RTS core equipment and servers. The SA (or reviewer) is responsible for knowing what general-purpose applications the asset being registered uses or is based upon. The SA (or reviewer) is further responsible for selection all general-purpose applications that the asset being registered uses. The following steps will detail applications that are typically found as the basis of or used by RTS assets.
 - Expand '<u>Database</u>' and drill down to find the version of database being used on the asset. If not used or not found; skip this selection.
 - Check the box next to the version of Database being used on the asset.
 Note: For Database registration instructions refer to the VMS registration instructions found in the Database Checklist.
 Note: Rules within the VMS require the selection additional postures when selecting a Database.
 - Click '>>' to move the posture to the 'Selected' window (Optional/Recommended)
 - o Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
 - Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
 - o Click '>>' and Save' again.
 - **Expand 'Web Server'** and drill down to find the version of Web Server being used on the asset. If not used or not found; skip this selection.
 - Check the box next to the version of Web Server being used on the asset.

<u>Note</u>: For Web Server registration instructions refer to the VMS registration instructions found in the Web Server Checklist.

<u>Note</u>: Rules within the VMS require the selection additional postures when selecting a Web Server.

- Click '>>' to move the posture to the 'Selected' window (Optional/Recommended)
 - Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
- Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
 - o Click '>>' and Save' again.
- Expand 'Application Servers' and drill down to find the version of Application Server being used on the asset. This will typically be a version of Tomcat. If not used or not found; skip this selection.
 - Check the box next to the version of Application Server being used on the asset.

<u>Note</u>: For Application Server registration instructions refer to the VMS registration instructions found in the Web Server and Application Checklists.

- <u>Note</u>: Rules within the VMS require the selection additional postures when selecting an Application Server.
- Click '>>' to move the posture to the 'Selected' window (Optional/Recommended)
 - Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
- Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
 - o Click '>>' and Save' again.
- Expand 'Browsers' and drill down to find the version(s) of Browser(s) being used on the asset. If not used or not found; skip this selection.
 Note: If a browser was automatically added to the asset's posture when selecting a Windows OS and it is the correct browser, skip this selection. If not, select the proper browser, add it, and select the incorrect browser version and click '<<' to remove it.
 - Check the box next to the version of Browser being used on the asset.
 Note: For Browser registration instructions refer to the VMS registration instructions found in the Web Checklist and/or Desktop Application Checklist.
 - <u>Note</u>: Rules within the VMS require the selection additional postures when selecting a Browser.
- Click '>>' to move the posture to the 'Selected' window (Optional/Recommended)
 - Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
- Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
 - o Click '>>' and Save' again.
- Expand 'Antivirus' and drill down to find the version of Antivirus being used on the asset. If not used or not found, skip this selection. The use of Antivirus software is a requirement for all Windows based systems.
 - Check the box next to the version of Antivirus being used on the asset.
 <u>Note</u>: For Antivirus software registration instructions refer to the VMS registration instructions found in the Desktop Application Checklist.
 <u>Note</u>: Rules within the VMS MAY require the selection additional postures when selecting Antivirus Software.
- Click '≥≥' to move the posture to the 'Selected' window (Optional/Recommended)
 - Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
- Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
- **Expand 'JVM'** and drill down to find the version of Java Virtual Machine Manager being used on the asset. If not used or not found; skip this selection. This is required, however, when registering certain other web server postures.

 Check the box next to the version of ESM software being used on the asset.

<u>Note</u>: For JVM registration instructions refer to the VMS registration instructions found in the Web Server Checklist.

<u>Note</u>: Rules within the VMS MAY require the selection additional postures when selecting a Java Virtual Machine.

- Click '>>' to move the posture to the 'Selected' window (Optional/Recommended)
 - Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
- Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
 - o Click '>>' and Save' again.
- **Expand 'MSdotNETFramework'** and drill down to find the version of Framework being used on the asset. If not used or not found; skip this selection.
 - Check the box next to the version of Framework being used on the asset.

<u>Note</u>: For dotNET Framework registration instructions refer to the VMS registration instructions found in the Web Server Checklist.

<u>Note</u>: Rules within the VMS MAY require the selection additional postures when selecting a dotNET Framework.

- Click '>>' to move the posture to the 'Selected' window (Optional/Recommended)
 - o Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
- Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
 - o Click '>>' and Save' again.
- **Expand 'ESM'** and drill down to find the version of Enterprise System Manager being used on the asset. If not used (not typically used) or not found; skip this selection.
 - Check the box next to the version of ESM software being used on the asset.

<u>Note</u>: For ESM registration instructions refer to the VMS registration instructions found in the ESM Checklist.

<u>Note</u>: Rules within the VMS MAY require the selection additional postures when selecting ESM software.

- Click '>>' to move the posture to the 'Selected' window (Optional/Recommended)
 - Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
- Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
 - o Click '>>' and Save' again.

- Expand 'Office Automation' and drill down to find the version of Office Automation software being used on the asset. If not used (not typically used) or not found; skip this selection.
 - Check the box next to the version of Office Automation software being used on the asset.

<u>Note:</u> For Office Automation registration instructions refer to the VMS registration instructions found in the Desktop Application Checklist.

<u>Note:</u> Rules within the VMS MAY require the selection additional postures when selecting an Office Automation.

- Click '>>' to move the posture to the 'Selected' window (Optional/Recommended)
 - Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
- Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
 - o Click '>>' and Save' again.
- g) **IF** registering a network switch, router, or other network transmission element, that is part of a LAN supporting an Adjunct or Auxiliary system or the management of the RTS system or an Adjunct or Auxiliary system, AND it is NOT part of the BCPS LAN/CAN/BAN/WAN network infrastructure or management system, proceed to h) below:

ELSE skip to i) below:

- h) Expand 'Network' then 'Data Network' and refer to the VMS registration instructions found in the Network Infrastructure, IP Wan, and/or Backbone Transport Checklists.
 - Check the boxes next to the appropriate postures for the asset.
 - Click '>>' to move the posture to the 'Selected' window (Optional/Recommended)
 - Enter any additional information requested by the appearance of an input box under the 'Selected' box. Click 'Add'.
 - Click 'Save'. (Optional/Recommended)
 - o Satisfy any Rule alert that appears under the 'Selected' box.
 - o Click '>>' and Save' again.
- i) **Click 'Save'** one last time Proceed to x.
- x. Click the 'Functions' tab to select the function of the asset being registered.
 - o Select all functions that the asset performs. If an appropriate function is not found; skip this selection.
 - o Click '>>' to move it to the 'Selected' window.
 - o Click 'Save'
- xi. Click the 'Systems / Enclaves' tab to associate this asset with the appropriate or all applicable program(s), enclave(s), and site(s).
 - o In the 'Available Systems' box:
 - Find and select '<u>DISN-DSN</u>' if the system can place or receive DSN calls. **OR**
 - Find and select '<u>DISN-DRSN</u>' if the system can place or receive DRSN calls.

- Click '>>' to move it to the 'Selected Systems' window
- IF the RTS System is managed or monitored by the ADIMSS (DSN), Find and select 'ADIMSS'

OR

- IF the RTS System is managed or monitored by the ARDIMSS or ESRS (DRSN), Find and select 'ARDIMSS' and/or 'ESRS'
- Click '>>' to move it to the 'Selected Systems' window
- o In the 'Available Enclaves' box:
 - Find and select the local enclave that the RTS system is part of. (i.e., your site/location) (These selections may not in the list as yet)
 Note: For registered enclaves, choose the enclave. If the enclave is not present, your IAM to determine if the enclave has been requested to be added. [(Reviewer Only) contact your team lead.] If the team lead or IAM has requested an enclave be added; 'Select Has Been Requested'. If the enclave has not been requested; 'Select Not Available'. There should not be any assets registered/updated that are not part of an enclave.
- o Click '>>' to move it to the 'Selected Systems' window
- o Click 'Save'
- xii. Click the 'Additional Details' tab and provide all of the requested information for the RTS asset; Building and room number should reflect the actual location of the RTS of the asset. Other information requested is Serial Number and Barcode, Make, Model and Manufacturer.
- xiii. Click 'Save'.
- xiv. Return to step vi to create another Computing asset or proceed to Reviewing Assets in the next section.

<u>Note</u>: (Reviewer) New assets created by a reviewer will be found under the '<u>Not Selected for Review</u>" area of the visit tree for the site that the asset is registered to.

<u>Note</u>: (Reviewer) Changing the status of one vulnerability will move the asset from the '<u>Not Selected for Review</u>" area or the 'Must Review' area to the 'Reviewed" area of the visit tree for the site that the asset is registered to.

<u>Note</u>: When creating a NEW asset it is recommended to run a VL03 report to identify the IAVMs that will be assigned to the new asset being created. (See instructions below). IAVMS that are assigned to an asset will default to an open status and must be acknowledged and fixed immediately. All other vulnerabilities will default to 'Not Reviewed'

<u>Note</u>: The following process may be used in the event that there is a need to create multiple assets having the **same** configuration or postures.

<u>CAUTION</u>: Extreme care must be exercised when performing this procedure. The identifying information MUST be changed (as listed under "minimum edit" below). If this information is not changed, the exported asset will be updated only.

Create the first asset and save it.

- While displaying the first asset's registration information, export the asset. This will create a .xml file on your computer that contains the registration information.
- Open the .xml file in a text editor.
- Edit the identifying information for the asset.
 - o At a minimum edit the following:
 - Asset name
 - Host name
 - Unique ID
 - MAC Address
 - IP address
 - o Optionally edit the following:
 - Building
 - Room
 - Serial number
 - Barcode
- Save the edited information insuring that the file name is changed appropriately and the .xml extension is maintained.
- Return to VMS and click the XML icon to the right of the file folder icon nest to computing. Browse for the file and click submit.
- Open the newly created asset and update/validate all identification and posture information. Update as needed.

1.7 Reviewing Assets – Step-by-Step

<u>Note</u>: The AS01 report can assist the review by quickly identifying the assets at the location the review is being performed. This will also identify the assets that have been created and can help to eliminate the creation of duplicate assets (i.e., the same asset under different names) Instructions for generating this report are provided under "Additional Reports" below.

1.7.1 First Review of the Asset under VMSv6

When reviewing an asset for the first time under VMSv6 or after initial registration in VMSv6, all asset registration and posture information must be validated. This occurs under the following conditions.

- The asset had been registered in VMSv5.4 and has been brought forward into VMSv6.
 - o Additional information as well as the asset postures must be added.
- An SA has initially registered the asset under VMSv6 and a Reviewer will be performing a review on the asset.
 - The reviewer must validate that all information and applicable postures have been properly assigned to the asset. The reviewer must work with the SA to insure proper and complete registration occurs.
- c. Steps
 - i. Expand 'Asset Findings Maint'
 - ii. Click 'Assets/Findings'
- iii. <u>(SA)</u> Expand 'By Location' and proceed to step vi. (*Reviewer Only*) Expand 'Visits' to display its sub-folders
- iv. (*Reviewer Only*) Expand the sub-folder you are assigned. Each subfolder represents an individual visit in VMS that has been assigned for your review.
- v. (*Reviewer Only*) Expand the visit and display the location summaries for the visit. Within the location, assets are divided into computing, non-computing and CNDS.
- vi. Expand 'Computing'.
- vii. (Reviewer Only) Expand 'Must Review'
 SA will not see 'Must Review', but will proceed to step viii.
- viii. Click the 'Asset Name'.
 - o Verify data in 'General' tab and 'Asset Identification'. For details see Section 1 "Creating the Asset", steps vii and vii.
 - ix. Click the 'Asset Posture' tab verify the postures/functions assigned to the asset:
 - o Expand 'The <u>Asset Name</u>' in the 'Selected' window (if it's there.)
 - o Verify that all postures for the asset has been selected and are accurate.
 - o IF the asset is not shown in 'Selected' box, or the postures are not accurate, see Section 1 "Creating the Asset", step ix.
 - <u>Note:</u> Assets registered under VMSv5.4 may have an OS assigned, but the additional postures/functions will have to be assigned.
 - x. Click the 'Functions' tab

o Verify that all Functions for the asset has been selected and are accurate. See Section 1 "Creating the Asset", step x. (As of 4/7/06 there are no RTS specific functions. This step may be skipped at this time.)

xi. Click the 'Systems / Enclaves' tab.

o Verify that the asset has been associated with the appropriate or all applicable program(s), enclave(s), and site(s). See Section 1 "Creating the Asset", step xi.

xii. Click the 'Additional Details' tab

- o Verify that the information on this tab is accurate. See Section 1 "Creating the Asset", step xii.
- xiii. If any of the information found is inaccurate, See Section 1 "Creating the Asset" for instructions on making additions or changes.
- xiv. <u>Continue with the following section</u> 'Procedures for Review of the Asset' step vii 'Must Review'

1.7.2 Procedures for Updating the Vulnerability Status of the Asset

If all registration tasks have been accomplished and/or verified, use the following procedures for updating the status of all assets, both computing and non-computing: **Note**: (Reviewer Only) In the event that the Voice/Video/RTS asset just reviewed does not exist in VMS, the reviewer may create it. It is highly recommended that the reviewer have the Voice/Video/RTS SA create the asset and then work with him/her to assure that the asset is fully and properly registered and named or identified in accordance with the Voice/Video/RTS asset registration instructions described above. If a reviewer must create an arbitrary asset to enter his/her vulnerability statuses, he/she must notify the team lead, others on the team that may also have to update their statuses on the same asset, and the Voice/Video/RTS asset SA. The Voice/Video/RTS asset SA may then update the registration information as needed. Additionally, the reviewer should check with the Voice/Video/RTS asset SA before creating a new asset in the event that the asset does exist in VMS but shows up in a different part of VMS. (i.e., identified differently or registered to a different organization). If a reviewer creates an asset, he/she becomes the SA or "owner" for the asset. "Ownership" of assets created by a reviewer must be transferred to the actual SA for the asset.

- d. Steps
 - i. Expand 'Asset Findings Maint'
 - ii. Click 'Assets/Findings'
- iii. <u>(SA)</u> Expand <u>'By Location'</u> and proceed to step vi. (*Reviewer Only*) Expand '<u>Visits</u>' to display it's sub-folders
- iv. (*Reviewer Only*) Expand the sub-folder you are assigned. Each subfolder represents an individual visit in VMS that has been assigned for your review.
- v. (*Reviewer Only*) Expand the visit and display the location summaries for the visit. Within the location, assets are divided into computing, non-computing and CNDS
- vi. Expand 'Computing' and/or 'Non-Computing' and/or 'CNDS' as applicable
- vii. (Reviewer Only) Expand 'Must Review'

 SA will not see 'Must Review', but will proceed to step viii.

 Note: (Reviewer Only) Newly created assets will appear under "Not Selected for Review".
- viii. **Expand the 'Asset Name'** for the asset to be reviewed. The icon in front of "Ready to review" assets is colored in RED. Drill down until the list of vulnerabilities displays under the asset. If multiple postures were selected for the asset during registration, a list of the postures is displayed. Expand each posture to see the list of vulnerabilities under each.

<u>Note</u>: Determine what postures, if any, can be reviewed and updated using automation. This would apply to any posture / technology for which a Gold Disk or a set of review scripts exist. (i.e., Windows Gold disk(s), and scripts for Unix, Database, and Web Servers). It is highly recommended that this automation be used to review as many findings as possible before beginning a manual review or update of the remaining vulnerabilities. Once reviewed in this manner, the results are imported into VMS to update the status of the vulnerabilities for each set of automation or technology. All vulnerabilities may be updated manually.

<u>Note</u>: To review / update all vulnerabilities under all major postures or technologies other than Voice/Video/RTS, Refer to the Asset Review instructions found in the appropriate checklist for that technology.

<u>Note</u>: When you drill down into the lowest level of the asset tree, you will find the Vulnerabilities and IAVMs assigned to the asset.

- ix. Click on a '<u>Vulnerability Key</u>' in the tree that needs to be updated to open its status update area and tabs (scroll down to see if necessary).
- x. **On the '<u>Status'</u> Tab**, Update the 'Status' of the vulnerability.

 <u>Note</u>: If selecting a status of '<u>O-Open</u>', a '<u>Details'</u> and '<u>Milestone</u>' must also be entered.
- xi. Click the '<u>Details</u>' Tab, (Conditional) identify details on all open vulnerabilities/findings by adding to or modifying the default details displayed in the box.
- xii. Click the 'Comments' Tab, (Optional) Add ,any pertinent comments
- xiii. Click the 'Programs' Tab, (Conditional)

Note: This is a place holder for future instructions relating to Program Baselines

xiv. Click the 'POA&M' Tab, (SA, not Reviewer) (Conditional)

<u>Note</u>: SAs performing self-assessments are required to enter a POA&M for all open vulnerabilities/findings before the status will save. This does not apply to a reviewer.

- o Click the 'New Milestone' Button, Enter a 'Milestone' (description of a step in mitigating/fixing the finding) and a 'Completion Date'.
- o Click the 'Disk/Save' icon on the left to save the milestone
- o Enter additional milestones as necessary.
- xv. Click the 'Apply to Other Findings' Tab, (Conditional) If applicable: Check 'Choose Other Assets with the Same Finding in the Same Status'. Select the appropriate assets.

<u>Note</u>: If this feature of VMS is to be used, it must be used before clicking '<u>Save</u>' or else no assets with similar postures / statuses will be found.

- xvi. **Click the 'Save'** button at the bottom of the form area **Note**: Alert messages will be shown below the 'Save' Button. If alert messages display, the status update information will not save until the alert message(s) is satisfied.
- xvii. Return to step ix above and select another '<u>Vulnerability Key</u>'. Repeat this until all '<u>Computing</u>' and '<u>Non-Computing</u>' asset vulnerability statuses are updated. <u>Note</u>: System Administrators should expand the OS assigned to the asset and each IAVM. Verify the OS level meets the required release or patch level.

1.7.3 Verify that all necessary assets were reviewed

- e. Steps
 - i. Expand 'Asset Findings Maint'
 - ii. Click 'Assets/Findings'
- iii. <u>(SA)</u> Expand <u>'By Location'</u> and proceed to step vi. (*Reviewer Only*) Expand '<u>Visits</u>' to display it's sub-folders
- iv. (*Reviewer Only*) Expand the sub-folder you are assigned. Each subfolder represents an individual visit in VMS that has been assigned for your review.

- v. (*Reviewer Only*) Expand the visit and display the location summaries for the visit. Within the location, assets are divided into computing, non-computing and CNDS.
- vi. Expand 'Computing' and/or 'Non-Computing' and/or 'CNDS' as applicable
- vii. (Reviewer Only) Expand 'Must Review'
 SA will not see 'Must Review', but will proceed to step viii.
- viii. Expand Each 'Asset Name' to view the list of asset postures.
 - o If checkmarks are gone, the asset has been fully reviewed.
 - ix. Done

The following reports can be used to verify the status of the site and its assets.

- 1. VC06 Asset Compliance Report
 - a. A Full report may be obtained
- 2. VC03 Severity Summary Report
 - a. Table of numbers only
- 3. VC01
 - a. Used for IAVM Compliance

See **Compliance monitoring** below for a quick set of instructions on generating these reports.

1.7.4 Add Comments to a Visit (Reviewer only)

- f. Steps—Click the following:
 - i. 'Visit Maint.'
 - ii. Expand the Organization the visit is set up for.
 - iii. Expand the Visit
 - iv. Locate the visit you are working on. (Drill down till you find it)
 - v. Click on CCSD or enclave name. (Drill down till you find it)
 - vi. 'Comments Tab'
 - a) Type your comments
 - vii. 'Save Changes'

1.8 Reports – Step-by-Step

1.8.1 Compliance Monitoring

- **VC06** provides a detailed report of all vulnerabilities that are assigned to an asset and its postures. There are many items that can be selected for display and the report can be filtered and sorted in multiple ways.
 - g. Steps-Click the following:
 - i. 'Reports'
 - ii. <u>'VC06'</u>
 - iii. Select an 'Asset(s)' or an 'Organization(s)'.
 - iv. Select "open" status to see only "Open" findings (Select others as desired. Hold the Ctrl or Shift key to make multiple selections)
 - v. Select the sort order under 'Sort By'
 - vi. Select the information to be displayed: Check the following boxes:
 - 4. 'Finding Comments'
 - 5. 'Finding Long Name' (Because it's truncated otherwise)
 - 6. 'Finding Details'
 - 7. 'Vulnerability Discussion'
 - 8. Others as desired
 - vii. 'Generate Report'
- **VC03** Provides a table of assets and technologies with the number and percentage of findings against each listed by severity category. Has numbers only.
 - *a. Steps Click the following:*
 - i. 'Reports'
 - ii. 'VC03'
 - iii. Select an 'Organization(s)'
 - iv. Review other options and select as desired
 - v. 'Generate Report'
- VC01 Used for IAVM Compliance (An SA may not see this option)
 - *a. Steps Click the following:*
 - i. 'Reports'
 - ii. 'VC01'
 - iii. On the 'Organizations' Tab, Select an organization
 - iv. On the 'Vulnerabilities' Tab, Select IAVM(s) or year(s)
 - v. Review other options and select as desired
 - vi. 'Generate'

1.8.2 Additional Reports

The following reports can be used for identifying assets at a site or location and determine what IVAMs are related to specific assets. Quick step by step instructions for creating the reports follows.

• AS01 - Identifying Assets

<u>Note</u>: The AS01 report can assist the review by quickly identifying the assets at the location the review is being performed. These instructions are applicable to locating all assets but are geared toward Telecom/RTS assets.

- *a.* Steps Click the following:
 - i. 'Reports'
 - ii. 'AS01'
 - i. Select 'Computing', hold Ctrl key, and select 'Non-Computing' (SUBMIT)
 - ii. Select 'By Location' (SUBMIT)
 - iii. Select the location
 - 1. May want to do other reports if your site manages or owns assets that are not located at their site. Check the box for Child Locations if applicable. (SUBMIT)
 - iv. Expand 'Non-Computing'
 - 1. Check the box for 'Telecom Policy'
 - v. Expand 'Computing'.
 - 1. Check the box for 'Telecom'
 - vi. Select 'Online', 'Offline', or 'Both'. Located under the right calendar ('Both' is recommended but 'Online' is the default)
 - vii. Check the box for 'Show Detailed Asset Information' (Recommended This will show a tree display of all postures that have been assigned to the asset during registration)
 - viii. Check the box for 'Show System Administrator Information' (Recommended)
 - ix. Submit to receive the Telecom/RTS Asset Report

<u>Note</u>: Reports are best displayed using the 'Output / Screen' option. The display may then be printed. Clicking the IE6 print function prints the report only without the surrounding frames. Using the 'Output / Export file' option produces a tab delimited text file. This file can be opened with excel to receive a database like table of the information. Use Right Click/Open With in Windows to open the file.

• VL03 - Look at IAVMs assigned to an Operating System or Application

<u>Note</u>: The VL03 report can assist the review by quickly identifying the IAVMs that will be identified to the asset when you select the operating system of the asset. This can be accomplished by performing the following steps.

- a. Steps-Click the following:
 - i. 'Reports'
 - ii. 'VL03'
 - x. Select 'Select by Operating System/Application(s)'
 - xi. Select the OS(s) and Applications(s) to report on

- xii. Select the environment (SUBMIT)
- xiii. Select any additional display options or deselect the default selections
- iii. 'Generate Report'

VoIP 0020

V0008222 CAT II

LAN Not Enclave and Network STIG compliant

8500.2 IA Control:	ECSC-1
References:	Voice over Internet Protocol (VoIP) STIG V1R1 Para. 1.0
Vulnerability	The VoIP system is not compliant with overall network security architecture and appropriate enclave security requirements.
Checks	
F	Review Network & Enclave SRR r
	Review the results of the most recent Enclave and Network Reviews. If there are a significant number of findings reported or if these STIGs were not applied, this is a finding.
Fixes	
ι	Jpgrade/configure the LAN
_	Upgrade the LAN infrastructure as necessary to comply with policy.
ŀ	Perform Enclave and Network Re Review the VoIP environment using the Network Infrastructure and Enclave STIGs / Checklists. Ensure firewall filtering and
	intrusion detection monitoring are in place according to guidance.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
VoIP 0025	V0008302 CAT III IPT / VolP LAN cannot support C2 assured service
8500.2 IA Control:	ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3
Vulnerability	The LAN supporting IPT / VoIP is not designed or implemented as a DOD C2VG LAN in accordance with the DOD GSCR, Appendix 3 and therefore cannot support assured service in support of C2 reliability requirements.
Checks	
>	Interview the IAO and/or SA
	Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
	Review Network Diagrams - C2
	Interview the IAO and review site network/facilities diagrams and documentation to confirm compliance.
	Specific attention should be given in the areas of: - Equipment redundancy above the access layer - Connection redundancy above the access layer - Equipment robustness and bandwidth capability - Connection bandwidth capability - Access layer switch size / number of phones served is below maximum - Backup power for all equipment. o Support for C2 users requires 2 hours minimum for all supporting equipment.
F !	o Support for Special C2 users requires 8 hours minimum for all supporting equipment.
Fixes	Comply with Bolicy C2 LAN
,	Comply with Policy - C2 LAN Upgrade the LAN infrastructure as necessary to meet requirements.
OPE	<u> </u>
Notes:	

19 MAY 2006 The IPT/ VoIP system not in the site's SSAA VoIP 0030 V0008223 CAT III 8500.2 IA Control: DCHW-1 References: DOD 8510.1-M; DITSCAP Application Manual, Voice over Internet Protocol (VoIP) STIG V1R1 Para. 1 Vulnerability VoIP devices exist that have not been added to site System Security Authorization Agreements (SSAAs). Checks Review the SSAA Review the SSAA and verify that all VoIP installations or modifications are included. Verify there is a procedure for approving changes to configuration. **Fixes** Add all VoIP to the SSAA. Add all VoIP installations and/or modifications to the SSAA. Obtain DAA approval for the updated SSAA. Submit to the SRR team lead for validation and finding closure. **NOT REVIEWED: NOT APPLICABLE: OPEN: NOT A FINDING:** Notes:

VoIP 0035	V0008285 CAT II	IPT / VOIP LAN NOT DSN STIG complian

8500.2 IA Control: ECSC-1

References: Defense Switched Network (DSN) STIG V1R1, Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3

Vulnerability The IPT / VoIP system is not compliant with the overall DOD voice system requirements contained in the DSN STIG.

Checks

Review DSN SRR results

Review the results of the most recent DSN SRR or Self Assessment. If there are a significant number of findings reported or if the DSN STIG was not applied, this is a finding.

Fixes

Perform a DSN review

NOT A FINIDING.

Review the VoIP environment using the DSN STIG / Checklist for compliance. Ensure firewall filtering and intrusion detection monitoring are in place according to guidance. Upgrade the LAN as necessary to meet requirements.

NOT DEVIEWED.

	NOT AT INDING.	NOT KEVIEWED.	NOT ALL LIOABLE.
Notes:			

NOT ADDITION DI E.

VoIP 0040 V0

V0008224 CAT II

MGCP is being used without IPSEC

Peferences:	ECSC-1, ECCT-1, ECNK-1
iveletetices.	Voice over Internet Protocol (VoIP) STIG V1R1 Section 3.12
Vulnerability	MGCP is being used without IPSEC enabled on each the MGCs to provide authentication and encryption.
Checks	
	IAO/SA demonstrate IPSEC on M
	Inspect, or have site personnel demonstrate compliance on, a sampling of effected devices to confirm compliance. Request the SA demonstrate that IPSEC is enabled for MGCP signaling on Media Gateways, Media Gateway Controllers, and other devices such as end instruments if they use MGCP, by providing configuration details.
Fixes	
1	Enable IPSEC for MGCP Enable IPSEC for MGCP signaling on Media Gateways, Media Gateway Controllers, and other devices such as end instruments that use the Media Gateway Control Protocol.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
/oIP 0050	V0008225 CAT II Improper Physical security - System access
/OIP 0050 3500.2 IA Control:	
3500.2 IA Control:	
3500.2 IA Control: References:	ECSC-1
3500.2 IA Control: References:	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.2
References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.2
References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.2 Critical VoIP network and server components are NOT located in secured areas.
References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.2 Critical VoIP network and server components are NOT located in secured areas. Confirm physical security During a walk through inspection, visually confirm that VoIP network and server components are installed in secured areas to include locked rooms, closets, and/or cabinets. Interview the IAO to determine how the distribution of keys to access the equipment is limited, controlled, and documented. Additionally determine if access control procedures/documentation are/is
References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.2 Critical VoIP network and server components are NOT located in secured areas. Confirm physical security During a walk through inspection, visually confirm that VoIP network and server components are installed in secured areas to include locked rooms, closets, and/or cabinets. Interview the IAO to determine how the distribution of keys to access the equipment is limited, controlled, and documented. Additionally determine if access control procedures/documentation are/is being used and review the access logs for compliance. Establish Physical Security
References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.2 Critical VoIP network and server components are NOT located in secured areas. Confirm physical security During a walk through inspection, visually confirm that VoIP network and server components are installed in secured areas to include locked rooms, closets, and/or cabinets. Interview the IAO to determine how the distribution of keys to access the equipment is limited, controlled, and documented. Additionally determine if access control procedures/documentation are/is being used and review the access logs for compliance.
References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.2 Critical VoIP network and server components are NOT located in secured areas. Confirm physical security During a walk through inspection, visually confirm that VoIP network and server components are installed in secured areas to include locked rooms, closets, and/or cabinets. Interview the IAO to determine how the distribution of keys to access the equipment is limited, controlled, and documented. Additionally determine if access control procedures/documentation are/is being used and review the access logs for compliance. Establish Physical Security The IAO must ensure that all equipment is installed in a locked room, closet, or cabinet. Additionally the IAO must insure that the distribution of keys to access the equipment is limited, controlled, and documented. Additionally, access control procedure
References: Vulnerability Checks Fixes	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.2 Critical VoIP network and server components are NOT located in secured areas. Confirm physical security During a walk through inspection, visually confirm that VoIP network and server components are installed in secured areas to include locked rooms, closets, and/or cabinets. Interview the IAO to determine how the distribution of keys to access the equipment is limited, controlled, and documented. Additionally determine if access control procedures/documentation are/is being used and review the access logs for compliance. Establish Physical Security The IAO must ensure that all equipment is installed in a locked room, closet, or cabinet. Additionally the IAO must insure that the distribution of keys to access the equipment is limited, controlled, and documented. Additionally, access control procedure

Network configuration is displayed on IP phones VoIP 0060 V0008226 CAT III 8500.2 IA Control: ECSC-1 References: Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.3 Vulnerability IP phones are configured to display network IP configuration information without the use of a password. Checks **Demonstrate Compliance** Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. **Fixes Properly configure IP Phones** Configure IP Phones to NOT display voice network information without the entry of a password or a PIN code. NOT APPLICABLE: **NOT REVIEWED:** OPEN: **NOT A FINDING:** Notes: Phone passwords/PINs do not remote authenticate VoIP 0061 V0008287 CAT III 8500.2 IA Control: ECSC-1 References: Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.3 Vulnerability The IPT terminal's configuration/configuration-display passwords/PINs DO NOT authenticate remotely to the IPT system controller (Local Call Controller (LCC)). Checks **Demonstrate Compliance** Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable.

Configure the system for comp

Fixes

> Review current configuration

Configure the system for compliance if the feature is available. Vendors should provide this capability in their systems

> Review current configuration files of effected devices to confirm compliance.

OPEN:	NOT A FINDING:	NOT REVIEWED:	NOT APPLICABLE:
Notes:			

VoIP 0062

V0008288 CAT II

There is NO IPT / VoIP terminal PIN policy

6500.2 IA CONTIOI.	IAIA-1, ECSC-1, IAIA-2
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.3
Vulnerability	There is NO IPT / VoIP terminal password/PIN management policy.
Checks	
:	> Interview the IAO and/or SA
	Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
Fixes	
	Comply with Policy
	Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
VoIP 0065	
VOIP 0003	V0008289 CAT II Auto-reg. of VoIP terminals NOT disbled
8500.2 IA Control:	· ·
8500.2 IA Control:	· ·
8500.2 IA Control: References:	ECSC-1
8500.2 IA Control: References:	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.4
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.4
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.4 Auto-registration of VoIP terminals is NOT disabled.
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.4 Auto-registration of VoIP terminals is NOT disabled. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Review current configuration
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.4 Auto-registration of VoIP terminals is NOT disabled. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable.
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.4 Auto-registration of VoIP terminals is NOT disabled. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Review current configuration
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.4 Auto-registration of VoIP terminals is NOT disabled. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance. Comply with Policy
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.4 Auto-registration of VoIP terminals is NOT disabled. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance.
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.4 Auto-registration of VoIP terminals is NOT disabled. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance. Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.

Vo

Notes:

VoIP 0066	V0008290 CAT II NO Inventory of authorized instruments
8500.2 IA Control:	ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.4
Vulnerability	An inventory of authorized instruments is NOT documented or maintained.
Checks	
1	Inspect/Review Documents
	Inspect or review the required "documents on file" that are necessary for compliance with the requirement.
;	> Interview the IAO and/or SA
	Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
Fixes	
	Comply with Policy
	Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.
OPE	EN: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
140.00.	
VoIP 0067	V0008291 CAT II UN-authorized terminals are registered
8500.2 IA Control:	ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.4
Vulnerability	UN-authorized VoIP terminals are registered With the LCC and are operational
Checks	
	Demonstrate Compliance
	Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable.
:	> Review current configuration
	> Review current configuration files of effected devices to confirm compliance.
	Perform a walk-through
	Perform a walk through of the facility to confirm compliance via inspection of the effected devices or items
Fixes	
	Comply with Policy
	Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.
	Remove unauthorized phones Remove unauthorized terminals, phones, endpoints etc from the VoIP network.
OPE	NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:

V0008293 CAT II

Manual registration of VoIP terminals NOT used

8500.2 IA Control:	ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.4
Vulnerability	Manual registration of VoIP terminals is not being used for normal operations
Checks	
>	Interview the IAO and/or SA
	Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
	Demonstrate Compliance
	Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable.
Fixes	
	Comply with Policy
	Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.
	Configure for manual registra
	Configure the LCC for manual registration.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
Notes:	
Notes:	
	VOCACO CATIL ValD eveters is not addressed differently then date
	V0008227 CAT II VoIP system is not addressed differently than data
VoIP 0070 8500.2 IA Control:	
VoIP 0070 8500.2 IA Control:	
VoIP 0070 8500.2 IA Control: References:	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 VoIP systems and components are not deployed on a logically segregated Subnet with different IP addressing from the data network.
VoIP 0070 8500.2 IA Control: References:	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1
VoIP 0070 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 VoIP systems and components are not deployed on a logically segregated Subnet with different IP addressing from the data network.
VoIP 0070 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 VoIP systems and components are not deployed on a logically segregated Subnet with different IP addressing from the data network.
VoIP 0070 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 VoIP systems and components are not deployed on a logically segregated Subnet with different IP addressing from the data network. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Interview the IAO and/or SA
VoIP 0070 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 VoIP systems and components are not deployed on a logically segregated Subnet with different IP addressing from the data network. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable.
VoIP 0070 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 VoIP systems and components are not deployed on a logically segregated Subnet with different IP addressing from the data network. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams,
VoIP 0070 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 VoIP systems and components are not deployed on a logically segregated Subnet with different IP addressing from the data network. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams,
VoIP 0070 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 VoIP systems and components are not deployed on a logically segregated Subnet with different IP addressing from the data network. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
VoIP 0070 8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 VoIP systems and components are not deployed on a logically segregated Subnet with different IP addressing from the data network. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Segregate VoIP systems Implement VoIP systems and components on a logically segregated and dedicated telephony (VoIP) network.
VoIP 0070 8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 VoIP systems and components are not deployed on a logically segregated Subnet with different IP addressing from the data network. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Segregate VoIP systems Implement VoIP systems and components on a logically segregated and dedicated telephony (VoIP) network.

VoIP 0080 V0008228 CAT III

VoIP system does not use RFC 1918 addressing

8500.2 IA Control:	ECSC-1, DCPA-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1
Vulnerability	VoIP systems are not deployed on a "private" (non WAN routed) network in accordance with Request for Comments (RFC) 1918.
Checks	
	Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. > Review current configuration > Review current configuration files of effected devices to confirm compliance.
Fixes	
I	mplement RFC 1918 addressing Use RFC 1918 addressing for all voice components. Monitor and control the use of this address space.
OPE	
Notes:	
VoIP 0082	V0008294 CAT II VolP DHCP server NOT Dedicated
VoIP 0082 8500.2 IA Control:	
8500.2 IA Control:	
8500.2 IA Control: References: Vulnerability	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 A DHCP server used for IPT / VoIP terminal IP address assignment, is not dedicated to the IPT / VoIP system
8500.2 IA Control: References: Vulnerability	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 A DHCP server used for IPT / VoIP terminal IP address assignment, is not dedicated to the IPT / VoIP system
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 A DHCP server used for IPT / VoIP terminal IP address assignment, is not dedicated to the IPT / VoIP system Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 A DHCP server used for IPT / VoIP terminal IP address assignment, is not dedicated to the IPT / VoIP system Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance. Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy. Dedicate a VoIP DHCP Server If DHCP is used to initialize VoIP phones, Implement a dedicated DHCP server or manually assign addresses when authorizing
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1 A DHCP server used for IPT / VoIP terminal IP address assignment, is not dedicated to the IPT / VoIP system Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance. Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy. Dedicate a VoIP DHCP Server If DHCP is used to initialize VoIP phones, Implement a dedicated DHCP server or manually assign addresses when authorizing the instrument by generating its configuration file.

VoIP 0085 V0008295 CAT III

VoSIP on SIPRNet NOT properly addressed

8500.2 IA Control:	DCPA-1, ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.1
Vulnerability	VoSIP systems and components residing on the SIPRNet ARE NOT utilizing address blocks assigned by the DRSN VoSIP PMO.
Checks	
:	 Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance. Review VoSIP address assignmen Review address assignment documentation provided by the DRSN PMO- VoSIP department
Fixes	
	Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy. Obtain & use VoSIP addresses Obtain and assign IP addresses as provided by the DRSN PMO- VoSIP department
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
VoIP 0090	V0008350 CAT III NO firewall between voice and data VLANs & LCC
VoIP 0090 8500.2 IA Control:	
8500.2 IA Control:	
8500.2 IA Control: References:	DCPA-1, ECSC-1
8500.2 IA Control: References:	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 A stateful inspection firewall is not used between the voice and data VLANs and between the voice VLANs and the VoIP core control
8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 A stateful inspection firewall is not used between the voice and data VLANs and between the voice VLANs and the VoIP core control
8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 A stateful inspection firewall is not used between the voice and data VLANs and between the voice VLANs and the VoIP core control equipment on the network to protect VoIP system and communications.
8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 A stateful inspection firewall is not used between the voice and data VLANs and between the voice VLANs and the VoIP core control equipment on the network to protect VoIP system and communications. Locate/inspect the VoIP firewa Locate the firewall used to protect the VoIP system / portion of the network. Review current configuration files to confirm compliance.
8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 A stateful inspection firewall is not used between the voice and data VLANs and between the voice VLANs and the VoIP core control equipment on the network to protect VoIP system and communications. Locate/inspect the VoIP firewa Locate the firewall used to protect the VoIP system / portion of the network. Review current configuration files to confirm compliance. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams,
8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 A stateful inspection firewall is not used between the voice and data VLANs and between the voice VLANs and the VoIP core control equipment on the network to protect VoIP system and communications. Locate/inspect the VoIP firewa Locate the firewall used to protect the VoIP system / portion of the network. Review current configuration files to confirm compliance. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams,
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 A stateful inspection firewall is not used between the voice and data VLANs and between the voice VLANs and the VoIP core control equipment on the network to protect VoIP system and communications. Cocate/inspect the VoIP firewa Locate the firewall used to protect the VoIP system / portion of the network. Review current configuration files to confirm compliance. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Implement proper VoIP firewall Implement a stateful inspection firewall between the IP telephony (VoIP) network and the IP data network. Additionally control traffic to and from the voip phone VLANs and the VoIP core equipment. (i.e., LCC, media gateways, messaging systems, etc).

VoIP 0095 V0

V0008328 CAT II

The Data Enclave Perimeter does not block VoIP

8500.2 IA Control:	EBBD-2, EBBD-1, ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1
Vulnerability	The data network perimeter protection is NOT configured to block all traffic destined to or sourced from the Voice VLAN IP Address space and VLANs
Checks	
:	> Interview the IAO and/or SA
	Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
:	> Review current configuration
	> Review current configuration files of effected devices to confirm compliance.
Fixes	
I	Block VoIP at data firewall
	onfigure the enclave perimeter premise router and data firewall to block all traffic to and from the Voice VLANs and IP Address space. Additionally configure the Premise router to route approved VoIP traffic from the WAN to the VoIP firewall.
OPE	NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
VoIP 0100	V0008230 CAT II VoIP system is not in its own VLAN(s)
8500.2 IA Control:	DCPA-1, ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1
Vulnerability	VoIP systems do not reside on dedicated and separate VLAN(s) from the data network.
Checks	
:	> Interview the IAO or SA
	Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable.
	Demonstrate Compliance
	Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable.
;	 Review current configuration Review current configuration files of effected devices to confirm compliance.
Fixes	> Neview current configuration lifes of effected devices to confirm compliance.
	Segregate VoIP systems
·	Segregate VoIP systems Deploy VoIP systems and components on a dedicated VLAN structure that is separate from the data network VLAN structure. A minimum of one VLAN is required. More than one is highly recommended.
OPE	Deploy VoIP systems and components on a dedicated VLAN structure that is separate from the data network VLAN structure. A minimum of one VLAN is required. More than one is highly recommended.
	Deploy VoIP systems and components on a dedicated VLAN structure that is separate from the data network VLAN structure. A minimum of one VLAN is required. More than one is highly recommended. NOT A FINDING: NOT APPLICABLE:

VoIP 0101 V0008296 CAT III

Multiple IPT / VoIP VLANs not implemented

8500.2 IA Control:	DCPA-1, ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1
Vulnerability	Multiple IPT / VoIP VLANs are not implemented
Checks	
:	Interview the IAO and/or SA
	Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
:	Review current configuration
	> Review current configuration files of effected devices to confirm compliance.
Fixes	
	Comply with Policy
	Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.
	Implement mult. VoIP VLANs
	Implement a multiple VLAN IPT / VoIP environment. Upgrade the network to support this if necessary.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
V-ID 0400	VOCCESS CATH NO VI Able for Mutually accessible systems
VoIP 0102	V0008335 CAT II NO VLANs for Mutually accessible systems
VoIP 0102 8500.2 IA Control:	
8500.2 IA Control:	
8500.2 IA Control: References: Vulnerability	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Message servers or workstations with soft phones have not been placed in their own VLAN(s)
8500.2 IA Control: References: Vulnerability	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Message servers or workstations with soft phones have not been placed in their own VLAN(s)
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Message servers or workstations with soft phones have not been placed in their own VLAN(s) Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams,
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Message servers or workstations with soft phones have not been placed in their own VLAN(s) Interview the IAO and/or SA
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Message servers or workstations with soft phones have not been placed in their own VLAN(s) Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Message servers or workstations with soft phones have not been placed in their own VLAN(s) Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Message servers or workstations with soft phones have not been placed in their own VLAN(s) Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration
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8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Message servers or workstations with soft phones have not been placed in their own VLAN(s) Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance. Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Message servers or workstations with soft phones have not been placed in their own VLAN(s) Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance. Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.

Vol

OFOO O IA Control	V0008304	CATI	VLANs not Network STIG compliant
6500.2 IA CONTOI.	DCPA-1, ECSC-1		
References:	Internet Protocol Telephon	(IPT) / Voice o	over Internet Protocol (VoIP) STIG SECTION 3.5.2.1
Vulnerability	The IPT / VoIP VLANs are	NOT configured	d according to the Network Infrastructure STIG.
Checks			
;	Interview the IAO and/or	SA	
			ompliance through discussion, review of site policy and procedures, diagrams, records, DAA/other approvals, etc as applicable.
I	Review DSN SRR results		
	the DSN STIG was not ap	oplied, this is a	SN SRR or Self Assessment. If there are a significant number of findings reported or if finding.
ı	Review current configurati		
			cted devices to confirm compliance. The reviewer must physically verify, by reviewing ports are disabled. Site personnel provide these files.
Fixes			
·	Jpgrade/configure the LAN		
	· -	ucture as neces	ssary to comply with policy.
	Comply with Policy Implement processes / p with policy.	rocedures, gen	erate documents, and/or adjust configuration(s) / architecture, as necessary to comply
0.05			NOT DEVIEWED AND ADDUCABLE
OPE	:N: NOTAI	INDING:	NOT REVIEWED: NOT APPLICABLE:
Notes:			
VoIP 0105	V0008305	CATII	Devices NOT connected to proper VLAN
		•	• •
8500.2 IA Control:	DCPA-1, ECSC-1		• •
	DCPA-1, ECSC-1		over Internet Protocol (VoIP) STIG Section 3.5.2.1
References:	DCPA-1, ECSC-1 Internet Protocol Telephon	y (IPT) / Voice o	
References:	DCPA-1, ECSC-1 Internet Protocol Telephon	y (IPT) / Voice o	over Internet Protocol (VoIP) STIG Section 3.5.2.1
References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephon	y (IPT) / Voice o /or data worksta	over Internet Protocol (VoIP) STIG Section 3.5.2.1
References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony IPT / VoIP instruments and Interview the IAO and/or Interview the IAO and/or documentation, configura	y (IPT) / Voice of /or data worksta SA SA to confirm of tion files, logs,	over Internet Protocol (VoIP) STIG Section 3.5.2.1
References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony IPT / VoIP instruments and Interview the IAO and/or Interview the IAO and/or documentation, configura Review current configura	y (IPT) / Voice of /or data worksta SA SA to confirm of tion files, logs,	over Internet Protocol (VoIP) STIG Section 3.5.2.1 ations are NOT connected to the VLANs that are designated for their use. compliance through discussion, review of site policy and procedures, diagrams, records, DAA/other approvals, etc as applicable.
References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony IPT / VoIP instruments and Interview the IAO and/or Interview the IAO and/or documentation, configura Review current configura > Review current configura	y (IPT) / Voice of /or data worksta SA SA to confirm of tion files, logs,	over Internet Protocol (VoIP) STIG Section 3.5.2.1 ations are NOT connected to the VLANs that are designated for their use.
References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony IPT / VoIP instruments and Interview the IAO and/or Interview the IAO and/or documentation, configura Review current configura > Review current configura Inspect effected devices	y (IPT) / Voice of /or data worksta SA SA to confirm of tion files, logs, attion gration files of elected devices to	over Internet Protocol (VoIP) STIG Section 3.5.2.1 ations are NOT connected to the VLANs that are designated for their use. compliance through discussion, review of site policy and procedures, diagrams, records, DAA/other approvals, etc as applicable.
References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony IPT / VoIP instruments and Interview the IAO and/or Interview the IAO and/or documentation, configura Review current configura > Review current configura Inspect effected devices Inspect a sampling of eff	y (IPT) / Voice of /or data worksta SA SA to confirm of tion files, logs, attion gration files of elected devices to	over Internet Protocol (VoIP) STIG Section 3.5.2.1 ations are NOT connected to the VLANs that are designated for their use. compliance through discussion, review of site policy and procedures, diagrams, records, DAA/other approvals, etc as applicable. ffected devices to confirm compliance.
References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony IPT / VoIP instruments and Interview the IAO and/or Interview the IAO and/or documentation, configura Review current configura > Review current configura Inspect effected devices Inspect a sampling of eff	y (IPT) / Voice of /or data worksta SA SA to confirm of tion files, logs, attion gration files of elected devices to	over Internet Protocol (VoIP) STIG Section 3.5.2.1 ations are NOT connected to the VLANs that are designated for their use. compliance through discussion, review of site policy and procedures, diagrams, records, DAA/other approvals, etc as applicable. ffected devices to confirm compliance.
References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony IPT / VoIP instruments and Interview the IAO and/or Interview the IAO and/or documentation, configura Review current configura Review current configura Review current configura Inspect effected devices Inspect a sampling of eff they are properly connected Comply with Policy	y (IPT) / Voice of /or data worksta SA SA to confirm of tion files, logs, ation iration files of elected devices to ected devices to ed.	over Internet Protocol (VoIP) STIG Section 3.5.2.1 ations are NOT connected to the VLANs that are designated for their use. compliance through discussion, review of site policy and procedures, diagrams, records, DAA/other approvals, etc as applicable. ffected devices to confirm compliance.
References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony IPT / VoIP instruments and Interview the IAO and/or Interview the IAO and/or documentation, configura Review current configura Review current configura Review current configura Inspect effected devices Inspect a sampling of eff they are properly connect Comply with Policy Implement processes / p	y (IPT) / Voice of /or data worksta SA SA to confirm of tion files, logs, ation iration files of elected devices to ected devices to ed.	over Internet Protocol (VoIP) STIG Section 3.5.2.1 ations are NOT connected to the VLANs that are designated for their use. compliance through discussion, review of site policy and procedures, diagrams, records, DAA/other approvals, etc as applicable. ffected devices to confirm compliance. o confirm compliance. Review device connections and port connections to determine if
References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony IPT / VoIP instruments and Interview the IAO and/or Interview the IAO and/or documentation, configura Review current configura Review current configura Review current configura Review current configura Inspect effected devices Inspect a sampling of eff they are properly connected Comply with Policy Implement processes / p with policy. Comply with Policy - VLAN	y (IPT) / Voice of /or data worksta SA SA to confirm or tion files, logs, ition iration files of elected devices to ed. rocedures, general ass ch as workstation	over Internet Protocol (VoIP) STIG Section 3.5.2.1 ations are NOT connected to the VLANs that are designated for their use. compliance through discussion, review of site policy and procedures, diagrams, records, DAA/other approvals, etc as applicable. ffected devices to confirm compliance. o confirm compliance. Review device connections and port connections to determine if erate documents, and/or adjust configuration(s) / architecture, as necessary to comply ons to the data VLANs only. Connect voice devices such as IPT/VoIP phones, media
References: Vulnerability Checks	Internet Protocol Telephony IPT / VoIP instruments and Interview the IAO and/or Interview the IAO and/or documentation, configura Review current configura Inspect effected devices Inspect a sampling of eff they are properly connect Comply with Policy Implement processes / p with policy. Comply with Policy - VLAN Connect data devices sugateways, and LCCs to the	y (IPT) / Voice of /or data worksta SA SA to confirm or tion files, logs, ition iration files of elected devices to ed. rocedures, general ass ch as workstation	over Internet Protocol (VoIP) STIG Section 3.5.2.1 ations are NOT connected to the VLANs that are designated for their use. compliance through discussion, review of site policy and procedures, diagrams, records, DAA/other approvals, etc as applicable. ffected devices to confirm compliance. o confirm compliance. Review device connections and port connections to determine if erate documents, and/or adjust configuration(s) / architecture, as necessary to comply ons to the data VLANs only. Connect voice devices such as IPT/VoIP phones, media

V0008306 CAT II

IP Phone switches NOT disabled or NOT using 802.1Q

8500.2 IA Control:	DCPA-1, ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1
Vulnerability	IP phones containing a multi-port switch do NOT utilize 802.1Q VLAN tagging and/or the PC port is not disabled.
Checks	
;	> Interview the IAO and/or SA
	Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
:	> Review current configuration
	> Review current configuration files of effected devices to confirm compliance.
Fixes	
	Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.
OPE	NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
VoIP 0111	V0008307 CAT II Access switches do not separate voice and data.
	V0008307 CAT II Access switches do not separate voice and data. ECSC-1, DCPA-1
8500.2 IA Control:	·
8500.2 IA Control: References:	ECSC-1, DCPA-1
8500.2 IA Control: References:	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Access layer switch ports do not separate voice and data onto the appropriate voice and data VLANs that arrives from IP phones that
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Access layer switch ports do not separate voice and data onto the appropriate voice and data VLANs that arrives from IP phones that
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Access layer switch ports do not separate voice and data onto the appropriate voice and data VLANs that arrives from IP phones that contain a multi-port switch Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams,
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Access layer switch ports do not separate voice and data onto the appropriate voice and data VLANs that arrives from IP phones that contain a multi-port switch Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Access layer switch ports do not separate voice and data onto the appropriate voice and data VLANs that arrives from IP phones that contain a multi-port switch Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams,
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Access layer switch ports do not separate voice and data onto the appropriate voice and data VLANs that arrives from IP phones that contain a multi-port switch Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, DCPA-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Access layer switch ports do not separate voice and data onto the appropriate voice and data VLANs that arrives from IP phones that contain a multi-port switch Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration
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References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.1 Access layer switch ports do not separate voice and data onto the appropriate voice and data VLANs that arrives from IP phones that contain a multi-port switch Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance. Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.

V0008323 CAT II

IP filters between Voice and Data VLANs NOT used

8500.2 IA Control:	ECSC-1, DCPA-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1
Vulnerability	IP filters have NOT been implemented between Voice and Data VLANs to control traffic such that it is restricted to planned traffic between authorized devices using approved ports, protocols, and services.
Checks	
;	> Interview the IAO and/or SA
	Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
;	> Review current configuration
	> Review current configuration files of effected devices to confirm compliance.
Fixes	
	Implement Data-VoIP VLAN IP f
	Implement a stateful inspection firewall or router ACLs between the IP telephony (VoIP) network and the IP data network. Additionally control traffic to and from the VoIP phone VLANs and the VoIP core equipment. (i.e., LCC, media gateways, messaging syste
OPE	
Notes:	
Notes:	
Notes:	
Notes:	
VoIP 0116	V0008325 CAT II Mutually accessible VLANs are not IP filtered
VoIP 0116	V0008325 CAT II Mutually accessible VLANs are not IP filtered DCPA-1, ECSC-1
VoIP 0116 8500.2 IA Control:	·
VoIP 0116 8500.2 IA Control: References:	DCPA-1, ECSC-1
VoIP 0116 8500.2 IA Control: References:	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 Traffic between the VLAN containing mutually accessible servers or devices (such as softphones) to and from the voice VLAN(s) or the
VoIP 0116 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 Traffic between the VLAN containing mutually accessible servers or devices (such as softphones) to and from the voice VLAN(s) or the
VoIP 0116 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 Traffic between the VLAN containing mutually accessible servers or devices (such as softphones) to and from the voice VLAN(s) or the data VLAN(s) is NOT filtered and controlled by a stateful inspection firewall. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
VoIP 0116 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 Traffic between the VLAN containing mutually accessible servers or devices (such as softphones) to and from the voice VLAN(s) or the data VLAN(s) is NOT filtered and controlled by a stateful inspection firewall. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configurations
VoIP 0116 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 Traffic between the VLAN containing mutually accessible servers or devices (such as softphones) to and from the voice VLAN(s) or the data VLAN(s) is NOT filtered and controlled by a stateful inspection firewall. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
VoIP 0116 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 Traffic between the VLAN containing mutually accessible servers or devices (such as softphones) to and from the voice VLAN(s) or the data VLAN(s) is NOT filtered and controlled by a stateful inspection firewall. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configurations Review current configuration files of effected devices to confirm compliance. The reviewer must physically verify, by reviewing
VoIP 0116 8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 Traffic between the VLAN containing mutually accessible servers or devices (such as softphones) to and from the voice VLAN(s) or the data VLAN(s) is NOT filtered and controlled by a stateful inspection firewall. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configurations Review current configuration files of effected devices to confirm compliance. The reviewer must physically verify, by reviewing
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VoIP 0116 8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 Traffic between the VLAN containing mutually accessible servers or devices (such as softphones) to and from the voice VLAN(s) or the data VLAN(s) is NOT filtered and controlled by a stateful inspection firewall. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configurations Review current configuration files of effected devices to confirm compliance. The reviewer must physically verify, by reviewing firewall configuration files, that unused ports are disabled. Site personnel provide these files. Implement IP filtering Implement IP filtering between the IP telephony (VoIP) network and the IP data network as well as to and from a VLAN housing mutually accessible systems or devices.
VoIP 0116 8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.1 Traffic between the VLAN containing mutually accessible servers or devices (such as softphones) to and from the voice VLAN(s) or the data VLAN(s) is NOT filtered and controlled by a stateful inspection firewall. Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configurations Review current configuration files of effected devices to confirm compliance. The reviewer must physically verify, by reviewing firewall configuration files, that unused ports are disabled. Site personnel provide these files. Implement IP filtering Implement IP filtering between the IP telephony (VoIP) network and the IP data network as well as to and from a VLAN housing mutually accessible systems or devices.

Properly configure IP Phones

NOT A FINDING:

Comply with Policy

with policy.

OPEN:

Notes:

19 MAY 2006 Developed by DISA for the DoD Unused voice VLAN ports are not disabled. VoIP 0120 V0008351 CAT III 8500.2 IA Control: ECSC-1 References: Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.2 Vulnerability Unused physical ports assigned to the voice VLAN are not disabled in access layer network switches. Checks Review current switch configur Review current configuration files of effected devices to confirm compliance. The reviewer must physically verify, by reviewing switch/router configuration files, that unused ports are disabled. Site personnel provide these files. Inspect a sampling of effected devices to confirm compliance. Plug a laptop or other Ethernet device into unused switch ports and see if link lights on both devices light indicating an active port. **Fixes** Disable unused VoIP ports Disable all unused physical network access ports or interfaces and assign them to an unused VLAN. **NOT APPLICABLE:** OPEN: **NOT A FINDING: NOT REVIEWED:** Notes: Unused data ports on IP phones are not disabled VoIP 0122 V0008232 CAT III 8500.2 IA Control: ECSC-1 References: Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.2 Vulnerability Data ports on IP phones are not being disabled or controlled as required. Checks > Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Review phone configurations Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy. Inspect effected devices Inspect a sampling of effected devices to confirm compliance. Review device connections and port connections to determine if they are properly connected. **Fixes**

UNCLASSIFIED

Configure IP Phones to NOT display voice network information without the entry of a password or a PIN code.

Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply

NOT REVIEWED:

NOT APPLICABLE:

V0008308 CAT II

Port security on voice VLAN NOT implemented

8500.2 IA Control:	FCSC-1
	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.2
vuillerability	Port security is NOT configured on all switchports with voice VLAN membership.
Checks	
>	Interview the IAO and/or SA
	Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
>	> Review current configuration
	> Review current configuration files of effected devices to confirm compliance.
Fixes	
	Comply with Policy
	Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.
4	Apply port security
	Apply port security to switchports with voice VLAN membership.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
VoIP 0127	V0008309 CAT II MAC addresses NOT limited on switchports
8500.2 IA Control:	ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.5.2.2
Vulnerability	The maximum number of MAC addresses that can be dynamically configured on a given switch port is NOT limited to that which is
vamorability	required to support authorized attached equipment (i.e., 1, 2, 3 or in some special cases 4).
Checks	
>	Interview the IAO and/or SA
	Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams,
	documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Inspect effected devices
	Inspect a sampling of effected devices to confirm compliance. Review device connections and port connections to determine if
_	they are properly connected.
F	Review current configurations
	Review current configuration files of effected devices to confirm compliance. The reviewer must physically verify, by reviewing firewall configuration files, that unused ports are disabled. Site personnel provide these files.
Fixes	
	Comply with Policy
	Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.
	Limit MAC Addresses
	Limit the maximum number of MAC addresses that can be dynamically configured on a given switch to that which is required (i.e., $1-3$). IP phones with a multi-port switch (data/PC port) would require 3 MAC addresses if a PC is attached while only 2 if
△ DE	NOT A FINDING: NOT REVIEWED: NOT ARRI ICARI E:
OPE	NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	

V0008318 CAT II

Softphone are installed without DAA approval

8500.2 IA Control:	ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6
Vulnerability	Softphone are installed and used without DAA approval
Checks	
	Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Inspect effected devices Inspect a sampling of effected devices to confirm compliance. Review device connections and port connections to determine if
	they are properly connected.
Fixes	
•	Obtain DAA approval - Softphon Obtain DAA approval for softphone installation and use. Be sure the DAA is informed regarding the IA issues with using softphones. Maintain DAA approval documentation. Otherwise discontinue use and remove any installed softphones
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
Notes.	
VoIP 0135	V0008235 CAT III A local Soft Phone policy does not exist
VoIP 0135 8500.2 IA Control:	
8500.2 IA Control:	
8500.2 IA Control: References:	DCSD-1, ECSC-1
8500.2 IA Control: References:	DCSD-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6
8500.2 IA Control: References: Vulnerability Checks	DCSD-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6
8500.2 IA Control: References: Vulnerability Checks	DCSD-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6 A local policy does not exist prohibiting the use of personal installation and use of IP Soft Phone agents, etc. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA
8500.2 IA Control: References: Vulnerability Checks	DCSD-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6 A local policy does not exist prohibiting the use of personal installation and use of IP Soft Phone agents, etc.
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8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6 A local policy does not exist prohibiting the use of personal installation and use of IP Soft Phone agents, etc. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.

V0008319 CAT II

Workstations with softphones NOT compliant

8500.2 IA Control:	ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6
-	Host systems (i.e., workstations), on which Soft Phones are installed, DO NOT comply with all applicable STIGs including but not limited to: OS, Application, Desktop Application.
Checks	
>	Interview the IAO and/or SA
ı	Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review Workstation SRR result
	Review the results of the most recent OS and Desktop SRR or Self Assessment of workstations containing softphones. If there are a significant number of findings reported or if the DSN STIG was not applied, this is a finding. Perform the necessary SRRs if necessary.
Fixes	
5	STIG Workstations
	Properly configure all workstations per requirements in all applicable STIGs.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
VoIP 0150	V0008233 CAT III PC-based soft-phones not properly implemented.
VoIP 0150 8500.2 IA Control:	
8500.2 IA Control:	
8500.2 IA Control: References:	DCPA-1, ECSC-1
8500.2 IA Control: References:	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6 PC-based, software IP phones (soft phones) were found in use without a dedicated or 802.1Q capable network interface card (NIC) and
8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6 PC-based, software IP phones (soft phones) were found in use without a dedicated or 802.1Q capable network interface card (NIC) and VoIP VLAN. Interview the IAO or SA
8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6 PC-based, software IP phones (soft phones) were found in use without a dedicated or 802.1Q capable network interface card (NIC) and VoIP VLAN.
8500.2 IA Control: References: Vulnerability Checks	DCPA-1, ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6 PC-based, software IP phones (soft phones) were found in use without a dedicated or 802.1Q capable network interface card (NIC) and VoIP VLAN. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance
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8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6 PC-based, software IP phones (soft phones) were found in use without a dedicated or 802.1Q capable network interface card (NIC) and VoIP VLAN. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Install a dedicated NIC for Vo Install a separate dedicated NIC bound to the VoIP application, or an 802.1Q capable NIC. Assign the appropriate VLANs separating voice and data traffic.
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6 PC-based, software IP phones (soft phones) were found in use without a dedicated or 802.1Q capable network interface card (NIC) and VoIP VLAN. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Install a dedicated NIC for Vo Install a separate dedicated NIC bound to the VoIP application, or an 802.1Q capable NIC. Assign the appropriate VLANs separating voice and data traffic.

V0008236 CAT II

Remote softphones are not properly implemented

8500.2 IA Control:	ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6
Vulnerability	Remote softphones are not implemented according to requirements.
Checks	
Fixes	Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Inspect effected devices Inspect a sampling of effected devices to confirm compliance. Review device connections and port connections to determine if they are properly connected. Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy. INOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
V-ID 0405	VOCCOCCA CATILL Coll contor not configured on an englave
VoIP 0165	V0008321 CAT II Call center not configured as an enclave
VoIP 0165 8500.2 IA Control:	_
8500.2 IA Control:	_
8500.2 IA Control: References:	ECSC-1
8500.2 IA Control: References:	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6 A Call center is not configured as an enclave and secured in accordance with all applicable STIGs Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review network diagrams - Cal
8500.2 IA Control: References: Vulnerability Checks Fixes	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6 A Call center is not configured as an enclave and secured in accordance with all applicable STIGs Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review network diagrams - Cal Review network diagrams and device configurations as appropriate, to confirm that a call center is configured as an enclave. Upgrade/configure the LAN Upgrade the LAN infrastructure as necessary to comply with policy. Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.6 A Call center is not configured as an enclave and secured in accordance with all applicable STIGs Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review network diagrams - Cal Review network diagrams and device configurations as appropriate, to confirm that a call center is configured as an enclave. Upgrade/configure the LAN Upgrade the LAN infrastructure as necessary to comply with policy. Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.

V0008237 CAT II

IP filtering is not used to protect VoIP system

3500.2 IA Control:	DCPA-1, ECSC-1
References:	Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.5
Vulnerability	The IAO will ensure that IP filtering is implemented to protect and control access to networks and critical servers supporting the VoIP environment.
Checks	
>	Interview the IAO or SA
	Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable.
Fixes	
ı	mplement IP filtering Implement IP filtering between the IP telephony (VoIP) network and the IP data network as well as to and from a VLAN housing mutually accessible systems or devices.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
/oIP 0180	V0008238 CAT II Stateful firewalls not used at VoIP/WAN boundary
3500.2 IA Control:	EBBD-2, EBBD-3, ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.2.2
Vulnerability	A Stateful inspection firewall has not been deployed at the VoIP LAN-to-WAN connection.
Checks	
>	Interview the IAO or SA
,	Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Locate/inspect the VoIP firewa
•	Review network diagrams and confirm firewall type and deployment location within the VoIP environment. Review firewall configuration for H.323 and SIP rule settings.
Fixes	
I	mplement stateful firewall
	Implement stateful inspection firewalls at VoIP WAN-to-WAN connection points.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	

19 MAY 2006 Developed by DISA for the DoD NAT is NOT used on VoIP WAN connections. VoIP 0190 V0008331 CAT II 8500.2 IA Control: EBBD-1, EBBD-2, ECSC-1, EBBD-3 References: Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.2.2 Vulnerability NAT is NOT used on VoIP WAN connections. Checks > Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. > Review current configuration > Review current configuration files of effected devices to confirm compliance. **Fixes** Implement VoIP NAT Implement NAT on the VoIP enclave firewall. **NOT REVIEWED:** NOT APPLICABLE: OPEN **NOT A FINDING:** Notes: Voice Perimeter firewalls are not dedicated VoIP 0200 V0008240 CAT III 8500.2 IA Control: EBBD-3, EBBD-1, ECSC-1 References: Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.2.2 Vulnerability Voice enclave Perimeter firewalls are not dedicated to VoIP connections. Checks

Dedicate IP filters/firewall t

Fixes

OPEN:

Review Network Diagrams-Fire

dedicated to processing VoIP traffic.

Review the VoIP environment and dedicate firewall and filtering device to the environment.

NOT APPLICABLE: **NOT A FINDING:** NOT REVIEWED: Notes:

eview network diagrams and confirm firewall type and deployment location within the VoIP environment. Ensure firewalls are

VoIP firewall management traffic is not controlled VoIP 0210 V0008241 CAT II 8500.2 IA Control: EBBD-2, ECSC-1, EBBD-3, EBRU-1, ECCT-1, ECNK-1, EB References: Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9.2 Vulnerability VoIP firewall administrative/management traffic (i.e. ports 69,161,162, 389) is not being controlled or encrypted at the VoIP network perimeter. Checks > Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. > Review current configuration > Review current configuration files of effected devices to confirm compliance. **Fixes** Control firewall admin access Control all VoIP firewall administrative/management traffic by port and IP if internal to the enclave. If remote connections are required from outside the enclave use encryption to secure the connections in addition to filtering by IP port and IP address OPEN **NOT A FINDING:** NOT REVIEWED: NOT APPLICABLE: Notes: MS-SQL port 1433 not controlled at VoIP boundary VoIP 0220 V0008242 CAT II 8500.2 IA Control: EBBD-3, ECSC-1, EBBD-2, EBBD-1 References: Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.2.2 Vulnerability MS-SQL port 1433 is not being controlled at the VoIP security perimeter. Checks > Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Review current configurations Review current configuration files of effected devices to confirm compliance. The reviewer must physically verify, by reviewing firewall configuration files, that unused ports are disabled. Site personnel provide these files. **Fixes** Block MS-SQL port 1433 Block MS-SQL port 1433 at the VoIP security perimeter. NOT REVIEWED: **NOT APPLICABLE: OPEN NOT A FINDING:** Notes:

19 MAY 2006 Developed by DISA for the DoD VoIP 0230 V0008243 CAT III NTP port 123 not controlled at VolP boundary 8500.2 IA Control: ECSC-1, EBBD-3, EBBD-2, EBBD-1 References: Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.2.2 Vulnerability The network time protocol (NTP) port 123 is not blocked at the VoIP security perimeter and clock is not being derived from a local global position system (GPS). Checks > Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. > Review current configuration > Review current configuration files of effected devices to confirm compliance. **Fixes Derive time locally** Derive VoIP network administrative/audit time from the local network premise router. Syncronise Premise router time Syncronise Premise router time to 2 of the Naval Observatory NTP servers in accordance with the Network Infrastructure STIG Block (NTP) port 123 Block (NTP) port 123 at the VoIP-WAN security perimeter. **NOT REVIEWED: NOT APPLICABLE:** OPEN: NOT A FINDING: Notes: VoIP 0240 V0008244 CAT II Terminal services (port 3389) is not being blocked 8500.2 IA Control: ECSC-1, ECNK-1, EBRU-1, EBBD-1, EBBD-3, EBBD-2, EC References: Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.2.2 Vulnerability Terminal services (port 3389) is not being blocked, or if used, encrypted at the VoIP security perimeter. Checks > Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. > Review current configuration

> Review current configuration files of effected devices to confirm compliance.

Fixes

Block all Terminal Services

If not used, block all Terminal Services access (port 3389) at the security enclave boundary. If Terminal Services is required, encrypt all connections at the security enclave boundary.

OPEN:	NOT A FINDING:	NOT REVIEWED:	NOT APPLICABLE:
Notes:			

VoIP 0245 V0008245 CAT II

Remote firewall Web connections are not proxied

8500.2 IA Control:	EBBD-2, EBBD-1, ECSC-1, EBBD-3			
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.2.2			
Vulnerability	Remote firewall Web connections for firewall administration are not proxied at the site perimeter.			
Checks				
>	> Interview the IAO or SA			
	Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable.			
>	> Review current configuration			
	> Review current configuration files of effected devices to confirm compliance.			
Fixes				
ŀ	Proxy "Web based" Management Proxy all remote firewall and VoIP system "web basd" administrative connections at the enclave perimeter.			
0.05				
OPE	NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:			
Notes:				
VoIP 0260	V0008246 CAT II Remote firewall web connections are not encrypted			
	V0008246 CAT II Remote firewall web connections are not encrypted EBRU-1, ECCT-1, ECNK-1, ECSC-1			
	••			
8500.2 IA Control: References:	EBRU-1, ECCT-1, ECNK-1, ECSC-1			
8500.2 IA Control: References:	EBRU-1, ECCT-1, ECNK-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.6 Remote firewall web connections for firewall administration are not encrypted at the site perimeter.			
8500.2 IA Control: References: Vulnerability Checks	EBRU-1, ECCT-1, ECNK-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.6 Remote firewall web connections for firewall administration are not encrypted at the site perimeter.			
8500.2 IA Control: References: Vulnerability Checks	EBRU-1, ECCT-1, ECNK-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.6 Remote firewall web connections for firewall administration are not encrypted at the site perimeter.			
8500.2 IA Control: References: Vulnerability Checks	EBRU-1, ECCT-1, ECNK-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.6 Remote firewall web connections for firewall administration are not encrypted at the site perimeter. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA			
8500.2 IA Control: References: Vulnerability Checks	EBRU-1, ECCT-1, ECNK-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.6 Remote firewall web connections for firewall administration are not encrypted at the site perimeter. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA			
8500.2 IA Control: References: Vulnerability Checks	EBRU-1, ECCT-1, ECNK-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.6 Remote firewall web connections for firewall administration are not encrypted at the site perimeter. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Encrypt remote firewall mgmt			
8500.2 IA Control: References: Vulnerability Checks	EBRU-1, ECCT-1, ECNK-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.6 Remote firewall web connections for firewall administration are not encrypted at the site perimeter. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Encrypt remote firewall mgmt Encrypt all remote firewall administrative web connections. At a minimum these connections should be encrypted at the enclave perimeter.			

V0008247 CAT II

Critical servers supporting VoIP are not dedicated

8500.2 IA Control:	ECSC-1			
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1			
Vulnerability	Critical servers supporting the VoIP telephony environment are not dedicated to VoIP telephony applications.			
Checks				
>	Interview the IAO or SA			
	Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable.			
i	Review Server applications			
	Review the server for additional applications not required for VoIP operational support.			
Fixes				
	Dedicate VoIP Servers			
	Dedicate critical servers supporting the VoIP telephony environment to running VoIP telephony applications only. Additionally, remove all unnecessary portions of the Operating System such as sub-applications or files and routines that are not required to			
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:			
Notes:				
VoIP 0280	V0008248 CAT III Servers supporting VoIP are not STIG compliant			
VoIP 0280 8500.2 IA Control:				
8500.2 IA Control:				
8500.2 IA Control: References:	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1 Critical servers supporting the telephony environment have not been secured in compliance with applicable STIG guidelines.			
8500.2 IA Control: References:	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1			
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1 Critical servers supporting the telephony environment have not been secured in compliance with applicable STIG guidelines.			
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1 Critical servers supporting the telephony environment have not been secured in compliance with applicable STIG guidelines.			
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1 Critical servers supporting the telephony environment have not been secured in compliance with applicable STIG guidelines. Review SRR documentation Interview the IAO. Obtain a copy of the applicable SRR results and review for compliance. If SRR results are not available,			
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1 Critical servers supporting the telephony environment have not been secured in compliance with applicable STIG guidelines. Review SRR documentation Interview the IAO. Obtain a copy of the applicable SRR results and review for compliance. If SRR results are not available,			
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1 Critical servers supporting the telephony environment have not been secured in compliance with applicable STIG guidelines. Review SRR documentation Interview the IAO. Obtain a copy of the applicable SRR results and review for compliance. If SRR results are not available, then SRR a representative number of devices.			
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1 Critical servers supporting the telephony environment have not been secured in compliance with applicable STIG guidelines. Review SRR documentation Interview the IAO. Obtain a copy of the applicable SRR results and review for compliance. If SRR results are not available, then SRR a representative number of devices. Secure critical servers Secure critical servers supporting the telephony environment. Apply all applicable STIGs (i.e., UNIX, Microsoft Windows, database, web, etc. UNIX, Win2k/NT, DSN, etc.) and ensure compliance with applicable STIG guidelines.			

V0008349 CAT II

Not using Vendor originated Patches

8500.2 IA Control:	ECSC-1			
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1.1			
Vulnerability	Software patches for critical VoIP servers and other IPT devices DO NOT originate from the system manufacturer and are NOT applied in accordance with manufacturer's instructions.			
Checks				
(Only Apply vendor approved pat Interview the IAO and/or SA to determine the source of IPT / VoIP system / device patches. Review patching records.			
Fixes				
(Only Apply vendor approved pat			
	Only Apply vendor-approved or vendor supplied patches. Correct site policy to require only vendor provided and approved patches are applied.			
ОРЕ	· _ ·· _			
Notes:				
VoIP 0282	V0008286 CAT II Not applying Vendor approved IAVA Patches			
VoIP 0282 8500.2 IA Control:				
8500.2 IA Control:				
8500.2 IA Control: References:	ECSC-1			
8500.2 IA Control: References:	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1.1			
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1.1			
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1.1 IAVAs are NOT being referred to IPT / VoIP vendors for approval and patch distribution			
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1.1 IAVAs are NOT being referred to IPT / VoIP vendors for approval and patch distribution Determine IAVA response Interview the IAO and/or SA to determine their response to IAVAs affecting the platforms supporting IPT / VoIP systems.			
8500.2 IA Control: References: Vulnerability Checks I	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1.1 IAVAs are NOT being referred to IPT / VoIP vendors for approval and patch distribution Determine IAVA response Interview the IAO and/or SA to determine their response to IAVAs affecting the platforms supporting IPT / VoIP systems.			
8500.2 IA Control: References: Vulnerability Checks I	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1.1 IAVAs are NOT being referred to IPT / VoIP vendors for approval and patch distribution Determine IAVA response Interview the IAO and/or SA to determine their response to IAVAs affecting the platforms supporting IPT / VoIP systems. Review patching records.			
8500.2 IA Control: References: Vulnerability Checks I	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.1.1 IAVAs are NOT being referred to IPT / VoIP vendors for approval and patch distribution Determine IAVA response Interview the IAO and/or SA to determine their response to IAVAs affecting the platforms supporting IPT / VoIP systems. Review patching records. Comply with IAVA policy Comply with policy. Contact the VoIP system vendor upon receipt of a IAVA to determine if the vendor can provide the required approved patch or refer th IAVA to the vendor for testing and approval			

VoIP 0290 V0008249 CAT II

Remote admin of VoIP servers is not encrypted

8500.2 IA Control:	ECCT-1, ECNK-1, ECSC-1, EBRU-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9.1
Vulnerability	Remote administrative connections to critical VoIP servers are not encrypted.
Checks	
>	Interview the IAO or SA
	Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable.
	Demonstrate Compliance
	Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable.
	Review Network Diagrams - rem
	Review network diagrams and confirm network perimeter device configuration rule settings for specific port and proxy control.
Fixes	
	Encrypt all administrative ac
	Encrypt all administrative access connections to critical VoIP servers. At a minimum these remote connections are to be encrypted at the enclave perimeter.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes	
Notes:	
VoIP 0295	V0008332 CAT II VoIP system management is not per DSN STIG
VoIP 0295 8500.2 IA Control:	,
8500.2 IA Control:	,
8500.2 IA Control: References:	ECSC-1
8500.2 IA Control: References:	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9 The VoIP system management is not performed in accordance with the requirements in the DSN STIG Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9 The VoIP system management is not performed in accordance with the requirements in the DSN STIG Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9 The VoIP system management is not performed in accordance with the requirements in the DSN STIG Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance.
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9 The VoIP system management is not performed in accordance with the requirements in the DSN STIG Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration files of effected devices to confirm compliance. Review network diagrams
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9 The VoIP system management is not performed in accordance with the requirements in the DSN STIG Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance.
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9 The VoIP system management is not performed in accordance with the requirements in the DSN STIG Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance. Review network diagrams Review network diagrams and confirm VoIP system Management connections are encrypted.
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9 The VoIP system management is not performed in accordance with the requirements in the DSN STIG Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration files of effected devices to confirm compliance. Review network diagrams
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9 The VoIP system management is not performed in accordance with the requirements in the DSN STIG Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance. Review network diagrams Review network diagrams and confirm VoIP system Management connections are encrypted. Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.9 The VoIP system management is not performed in accordance with the requirements in the DSN STIG Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. Review current configuration > Review current configuration files of effected devices to confirm compliance. Review network diagrams Review network diagrams and confirm VoIP system Management connections are encrypted. Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.

VoIP 0300 V

V0008250 CAT II

VoIP is not encrypted over a "public" IP WAN

8500.2 IA Control:	ECNK-1, ECSC-1, ECCT-1, EBRU-1			
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.8			
Vulnerability	VoIP traffic is being sent over a public IP network (i.e. internet, NIPRNet) without being encrypted.			
Checks				
>	Interview the IAO or SA			
	Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable.			
	Review network diagrams - Wan			
	Review network diagrams and device configurations as appropriate, to confirm VoIP LAN-to-Wan connections are encrypted. Review current configuration: Review current configuration files of effected devices and confirm compliance			
Fixes				
E	Encrypt all VoIP/ Wan calls			
	Secure all VoIP Wan-to-Wan call connections via encryption.			
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:			
Notes:				
VoIP 0310	V0008251 CAT II Legacy Unified mail, text to speech is enabled			
VoIP 0310 8500.2 IA Control:				
8500.2 IA Control:				
8500.2 IA Control: References:	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 The unified mail, text to speech feature is enabled using an existing email system.			
8500.2 IA Control: References:	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10			
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 The unified mail, text to speech feature is enabled using an existing email system. Interview the IAO or SA			
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 The unified mail, text to speech feature is enabled using an existing email system.			
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 The unified mail, text to speech feature is enabled using an existing email system. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance			
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 The unified mail, text to speech feature is enabled using an existing email system. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable.			
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 The unified mail, text to speech feature is enabled using an existing email system. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices.			
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 The unified mail, text to speech feature is enabled using an existing email system. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable.			
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 The unified mail, text to speech feature is enabled using an existing email system. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Disable unified mail text to s Disable the text to speech of unified mail if using an existing email system for voice mail.			
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 The unified mail, text to speech feature is enabled using an existing email system. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Disable unified mail text to s Disable the text to speech of unified mail if using an existing email system for voice mail.			
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 The unified mail, text to speech feature is enabled using an existing email system. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Disable unified mail text to s Disable the text to speech of unified mail if using an existing email system for voice mail.			
References: Vulnerability Checks Fixes	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 The unified mail, text to speech feature is enabled using an existing email system. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Compliance Have the IAO or SA demonstrate compliance with the requirement; minimally on a sampling of the related or effected devices. Inspect configuration files as applicable. Disable unified mail text to s Disable the text to speech of unified mail if using an existing email system for voice mail.			

V0008252 CAT II

Stateful firewalls have not been implemented

8500.2 IA Control:	EBBD-2, ECSC-1
References:	Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.10
Vulnerability	Stateful firewall controls have not been implemented between the VoIP VLAN and an email system residing on the data network.
Checks	
>	> Interview the IAO or SA
	Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable.
Fixes	
ı	Implement statefull firewall Implement statefull firewal controls between the VoIP VLAN and any email system supporting the VoIP environment that resides on the data network.
OPE	NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
VoIP 0330	V0008253 CAT II Voice mail system VoIP is not STIG compliant
8500.2 IA Control:	ECSC-1
References:	Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.10
Vulnerability	The Voice mail system supporting VoIP is not secured to applicable STIG guidance.
Checks	
>	> Interview the IAO or SA
	Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable.
	Review server SRR results
	Obtain a copy of all applicable SRR or Self Assessment results and review for compliance. If there are a significant number of findings reported or if the an applicable STIG was not applied, this is a finding. If SRR results are not available, then perform all applicable SRRs on a representative number of VoIP system servers and devices. Note: The specific VoIP system server or device determines the applicability of any given STIG. Many VoIP system servers or devices are based on general-purpose operating system such as Microsoft Windows, Unix, or Linux. They may use general-purpose applications such as databases like MS-SQL or Oracle and/or employ web server technology like IIS or similar. Determine what the system under review is based upon and perform the associated SRRs. Additionally, an application SRR may be applicable for the vendor's application that makes the server or device perform the functions or the management of the system.
Fixes	
5	Secure critical servers
	Secure critical servers supporting the telephony environment. Apply all applicable STIGs (i.e., UNIX, Microsoft Windows, database, web, etc. UNIX, Win2k/NT, DSN, etc.) and ensure compliance with applicable STIG guidelines.
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	

V0008254 CAT II

Supporting application services not STIG Compliant

8500.2 IA Control:	ECSC-1		
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10		
Vulnerability	Application services (i.e. SQL, IIS, Apache, Oracle, etc.) supporting the VoIP environment have not been secured to applicable STIG guidance.		
Checks			
	Review server SRR results		
	Obtain a copy of all applicable SRR or Self Assessment results and review for compliance. If there are a significant number of findings reported or if the an applicable STIG was not applied, this is a finding. If SRR results are not available, then perform all applicable SRRs on a representative number of VoIP system servers and devices. Note: The specific VoIP system server or device determines the applicability of any given STIG. Many VoIP system servers or devices are based on general-purpose operating system such as Microsoft Windows, Unix, or Linux. They may use general-purpose applications such as databases like MS-SQL or Oracle and/or employ web server technology like IIS or similar. Determine what the system under review is based upon and perform the associated SRRs. Additionally, an application SRR may be applicable for the vendor's application that makes the server or device perform the functions or the management of the system.		
Fixes			
;	Secure critical servers		
	Secure critical servers supporting the telephony environment. Apply all applicable STIGs (i.e., UNIX, Microsoft Windows, database, web, etc. UNIX, Win2k/NT, DSN, etc.) and ensure compliance with applicable STIG guidelines.		
OPE			
Natas			
Notes:			
VoIP 0350	V0008255 CAT II Voice mail settings can be changed - unsecured		
	V0008255 CAT II Voice mail settings can be changed - unsecured ECSC-1, ECNK-1, ECCT-1, EBRU-1		
8500.2 IA Control:			
8500.2 IA Control: References:	ECSC-1, ECNK-1, ECCT-1, EBRU-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 Voice mail settings can be changed by the subscriber via a unsecured/unencrypted connection.		
8500.2 IA Control: References:	ECSC-1, ECNK-1, ECCT-1, EBRU-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10		
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, ECNK-1, ECCT-1, EBRU-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 Voice mail settings can be changed by the subscriber via a unsecured/unencrypted connection.		
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, ECNK-1, ECCT-1, EBRU-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 Voice mail settings can be changed by the subscriber via a unsecured/unencrypted connection. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA		
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, ECNK-1, ECCT-1, EBRU-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 Voice mail settings can be changed by the subscriber via a unsecured/unencrypted connection. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable.		
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, ECNK-1, ECCT-1, EBRU-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 Voice mail settings can be changed by the subscriber via a unsecured/unencrypted connection. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Voice mail Config Have the IAO or SA demonstrate compliance with the requirement; Have the SA demonstrate from an IP Phone. If settings can		
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, ECNK-1, ECCT-1, EBRU-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 Voice mail settings can be changed by the subscriber via a unsecured/unencrypted connection. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Voice mail Config		
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, ECNK-1, ECCT-1, EBRU-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 Voice mail settings can be changed by the subscriber via a unsecured/unencrypted connection. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Voice mail Config Have the IAO or SA demonstrate compliance with the requirement; Have the SA demonstrate from an IP Phone. If settings can		
8500.2 IA Control: References: Vulnerability Checks	ECSC-1, ECNK-1, ECCT-1, EBRU-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 Voice mail settings can be changed by the subscriber via a unsecured/unencrypted connection. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Voice mail Config Have the IAO or SA demonstrate compliance with the requirement; Have the SA demonstrate from an IP Phone. If settings can also be changed via a web connection, ensure this connection utilizes SSL. Secure voice mail user config		
8500.2 IA Control: References: Vulnerability Checks	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 Voice mail settings can be changed by the subscriber via a unsecured/unencrypted connection. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Voice mail Config Have the IAO or SA demonstrate compliance with the requirement; Have the SA demonstrate from an IP Phone. If settings can also be changed via a web connection, ensure this connection utilizes SSL. Secure voice mail user config Secure all subscriber access to voice mail settings with SSL, SSH or available encryption.		
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8500.2 IA Control: References: Vulnerability Checks Fixes	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.10 Voice mail settings can be changed by the subscriber via a unsecured/unencrypted connection. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Demonstrate Voice mail Config Have the IAO or SA demonstrate compliance with the requirement; Have the SA demonstrate from an IP Phone. If settings can also be changed via a web connection, ensure this connection utilizes SSL. Secure voice mail user config Secure all subscriber access to voice mail settings with SSL, SSH or available encryption.		

V0008256 CAT II

Wireless VoIP is being used without Wireless STIG

8500.2 IA Control:	ECSC-1, ECWN-1			
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.11			
Vulnerability	Wireless VoIP is being used without Wireless STIG security guidance applied.			
Checks				
ı	nterview the IAO			
	Review the SSAA (Manual) - Review the SSAA and verify that all VoIP installations or modifications are included. Verify there is a procedure for approving changes to configuration.			
ı	Review Wireless SRR results			
	Review the results of the most recent Wireless Reviews and/or wireless discovery. If Wireless VoIP is used, and there are a significant number of findings reported against the WLAN or if the STIG was not applied, this is a finding.			
Fixes				
(Comply with Wireless Policy			
	Apply requirements contained in both the VoIP STIG and the Wireless STIG wherever VoIP over Wireless is used.			
OPE	N: NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:			
Notes:				
VoIP 0361	V0008333 CAT II NO DAA approval for Wireless VolP			
VoIP 0361 8500.2 IA Control:	• •			
8500.2 IA Control:	• •			
8500.2 IA Control: References:	ECSC-1			
8500.2 IA Control: References:	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.11			
References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.11			
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.11 Wireless VoIP is being used without DAA approval Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams,			
8500.2 IA Control: References: Vulnerability Checks	ECSC-1 Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.11 Wireless VoIP is being used without DAA approval Interview the IAO and/or SA			
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V0008257 CAT II

The VoIP system is not DSN APL certified

8500.2 IA Control:	EBCR-1, ECSC-1
References:	Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.13, DODI 8100.3; Department of Defense (DoD) Voice Networks DoD Voice Networks, 16 January, 2004, Defense Switched Network (DSN) STIG V1R1 Section 6.0
Vulnerability	VoIP systems or networks are connected to the DSN or PSTN switching system without being certified and placed on the DSN APL.
Checks	
:	Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable.
Fixes	
	Comply with Policy Implement processes / procedures, generate documents, and/or adjust configuration(s) / architecture, as necessary to comply with policy.
OPE	NOT A FINDING: NOT REVIEWED: NOT APPLICABLE:
Notes:	
140100.	
110100.	
110.00.	
VoIP 0380	V0008258 CAT II VoIP is primary voice system for C2 users
VoIP 0380	V0008258 CAT II VoIP is primary voice system for C2 users EBCR-1, ECSC-1
VoIP 0380 8500.2 IA Control:	
VoIP 0380 8500.2 IA Control: References:	EBCR-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.12, Defense Switched Network (DSN) STIG V1R1 Voice Over IP is being used as the primary voice communications system for C2 users.
VoIP 0380 8500.2 IA Control: References:	EBCR-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.12, Defense Switched Network (DSN) STIG V1R1 Voice Over IP is being used as the primary voice communications system for C2 users.
VoIP 0380 8500.2 IA Control: References: Vulnerability Checks	EBCR-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.12, Defense Switched Network (DSN) STIG V1R1 Voice Over IP is being used as the primary voice communications system for C2 users.
VoIP 0380 8500.2 IA Control: References: Vulnerability Checks	EBCR-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.12, Defense Switched Network (DSN) STIG V1R1 Voice Over IP is being used as the primary voice communications system for C2 users. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA
VoIP 0380 8500.2 IA Control: References: Vulnerability Checks	EBCR-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.12, Defense Switched Network (DSN) STIG V1R1 Voice Over IP is being used as the primary voice communications system for C2 users. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Provide traditional DSN TDM se
VoIP 0380 8500.2 IA Control: References: Vulnerability Checks	EBCR-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.12, Defense Switched Network (DSN) STIG V1R1 Voice Over IP is being used as the primary voice communications system for C2 users. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable.
VoIP 0380 8500.2 IA Control: References: Vulnerability Checks	EBCR-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.12, Defense Switched Network (DSN) STIG V1R1 Voice Over IP is being used as the primary voice communications system for C2 users. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Provide traditional DSN TDM se The IAO should ensure that all C2 users are provided with traditional DSN voice communication services.
VoIP 0380 8500.2 IA Control: References: Vulnerability Checks	EBCR-1, ECSC-1 Voice over Internet Protocol (VoIP) STIG V1R1 Para 3.12, Defense Switched Network (DSN) STIG V1R1 Voice Over IP is being used as the primary voice communications system for C2 users. Interview the IAO or SA Interview the IAO or SA and confirm compliance through discussion, review of site policy, diagrams, documentation, DAA approvals, etc as applicable. Provide traditional DSN TDM se The IAO should ensure that all C2 users are provided with traditional DSN voice communication services.

19 MAY 2006 Developed by DISA for the DoD **External VolP calls NOT routed via Media Gateway** VoIP 0900 V0008329 CAT II 8500.2 IA Control: EBBD-2, ECSC-1, EBBD-3, EBBD-1 References: Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.2.1 Vulnerability Calls to and from the enclave system to external networks are NOT routed via Media Gateway Checks > Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable. > Review current configuration > Review current configuration files of effected devices to confirm compliance. **Fixes** Implement Media Gateway Block all VoIP traffic at the enclave boundary and implement a media gateway to handle calls into and out of the enclave. OPEN **NOT A FINDING:** NOT REVIEWED: NOT APPLICABLE Notes: VoIP trunking is used without DAA approval. VoIP 0901 V0008330 CAT III 8500.2 IA Control: EBBD-3, EBBD-2, EBBD-1, ECSC-1 References: Internet Protocol Telephony (IPT) / Voice over Internet Protocol (VoIP) STIG Section 3.7.2.1 Vulnerability VoIP trunking is used without DAA approval. Checks > Interview the IAO and/or SA Interview the IAO and/or SA to confirm compliance through discussion, review of site policy and procedures, diagrams, documentation, configuration files, logs, records, DAA/other approvals, etc as applicable.

Implement Media Gateway

Fixes

Block all VoIP traffic at the enclave boundary and implement a media gateway to handle calls into and out of the enclave.

> Review current configuration files of effected devices to confirm compliance.

Obtain DAA approval - VoIP Tru

> Review current configuration

btain DAA approval for VoIP Trunking and use. Be sure the DAA is informed regarding the IA issues with using VoIP Trunking. Maintain DAA approval documentation. Otherwise discontinue use of VoIP Trunking.

OPEN:	NOT A FINDING:	NOT REVIEWED:	NOT APPLICABLE:
Notes:			